

**State of Missouri
Plan for Implementation,
Maintenance and Enforcement
of National Ambient Air
Quality Standards**

**Missouri Air Conservation Commission
Adopted: February 1, 2007**



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ACKNOWLEDGMENTS

The information, analysis and documentation contained in this plan represents the cooperative effort between the United States Environmental Protection Agency (Region VII) and the Missouri Department of Natural Resources' Air Pollution Control Program.

The Missouri Department of Natural Resources' Air Pollution Control Program gratefully acknowledges participants' input.

1.0 Executive Summary

This state of Missouri Plan for Implementation, Maintenance and Enforcement of National Ambient Air Quality Standard (NAAQS) has been written to fulfill the requirements of Section 110 of the Federal Clean Air Act Amendments (CAA) of 1990. Section 110 of the CAA requires that each state submit to the Administrator of the U.S. Environmental Protection Agency (EPA) a plan for the implementation, maintenance and enforcement of NAAQS in every air quality region within the state.

The NAAQS was revised for the new 8-hour ozone primary and secondary standards proposed by EPA on July 18, 1997 and finalized on April 30, 2004. The revised 8-hour ozone standards require that revised state plans be submitted within three (3) years after the rule's effective date (June 15, 2007), and after promulgation of the NAAQS for any pollutant.

The NAAQS for the new PM_{2.5} primary and secondary standards was proposed by EPA on July 18, 1997 and finalized on January 5, 2005. The new PM_{2.5} standards require that revised state plans be submitted within three (3) years after the rule's effective date (April 5, 2008) and after promulgation of NAAQS for any pollutant.

Environmental Defense and the American Lung Association filed suit against EPA alleging that EPA unreasonably delayed making determinations as to whether each state had submitted the remaining state implementation plan revisions required by CAA section 110 (a)(2) for implementation, maintenance and enforcement of the respective 1997 NAAQS. A Consent Decree was agreed to and signed that declared that State Implementation Plan (SIP) due dates are now December 15, 2007 for ozone and October 5, 2008 for PM_{2.5} thus extending the three (3) year SIP submittal requirements.

The content of this combined plan has been developed to demonstrate the continued attainment of primary and secondary standards for 8-hour ozone and for PM_{2.5} from the regulations for preparation, adoption and submittal of implementation plans codified in the Congressional Federal Record (CFR) at 40 CFR part 51, Appendix V, "Criteria for Determining the Completeness of Plan Submissions".

For the purpose of this plan, the state of Missouri consists of Out-state areas, the Kansas City metropolitan area and the St. Louis metropolitan area. These areas and designations are listed at 40 CFR part 81.326, "Designation of Areas for Air Quality Planning Purposes – Missouri".

This plan is for the entire state of Missouri. However, the Kansas City metropolitan area 8-hour ozone maintenance plan and the St. Louis metropolitan

area 8-hour ozone and PM_{2.5} nonattainment plans are being addressed separately from this document.

The state of Missouri acknowledges its responsibilities related to section 110(a) of the CAAA and reaffirms that the state has full authority under section 110(a) to implement the revised NAAQS.

Under the current SIP and Missouri statute (Appendix A), the state has the necessary infrastructure, resources and general authority to address the revised ozone and PM₁₀ standards and the new PM_{2.5} standards.

2.0 Time Line History

2.1 Ozone

The U.S. Environmental Protection Agency (EPA) established in 1971 a national primary and secondary maximum 1-hour National Ambient Air Quality Standards (NAAQS) ozone standard of 0.08 parts per million (ppm) that is not to be exceeded more than once per year. (See Federal Register, April 30, 1971, Volume 36, Number 84).

The 1972 Kansas City and Out-state state implementation plan (SIP) stated that Set II Pollutant Considerations (carbon monoxide (CO), nitrogen oxides (NO_x), hydrocarbon oxides (HC-O_x)) that because the levels of CO, NO_x, photochemical oxidants and hydrocarbons are generally well below the levels established as the secondary standards for these pollutants. It should be noted that control strategies for regions classified Priority III for any pollutant are not required by the federal government. (Set I Pollutants are particulate matter (PM) and sulfur oxides (SO_x)).

Table I lists the final Air Quality Control Region (AQCR) Priority Classes for Out-state Missouri.

TABLE I

<u>(AQCR)</u>	<u>PM</u>	<u>SO_x</u>	<u>CO</u>	<u>NO_x</u>	<u>HC-O_x</u>
SW Intrastate	I	III	III	III	III
SE Intrastate	III	III	III	III	III
Northern Intrastate	II	III	III	III	III

Priority I Regions were required to submit:

- air quality and emissions data in detail;
- a control strategy that was tested and found to be appropriate and adequate;
- a comprehensive contingency plan for the prevention of air pollution emergency episodes; and finally
- an air quality surveillance network.

Priority II Regions are intermediate in scope and, therefore, fewer control strategies are required. Control strategies for regions classified as Priority III for any pollutant are not required.

On February 8, 1979, EPA revised the national primary and secondary maximum 1-hour ozone air quality standard to 0.12 ppm, with a 1-hour average not to be exceeded more than one day per year. (See Federal Register, February 8, 1979, Volume 44, Page 8202).

On July 18, 1997, EPA revised the 1-hour ozone air quality standard for ozone by replacing the 1979 standard with an 8-hour standard set at 0.08 ppm (See Federal Register, July 18, 1997, Volume 62, Number 138).

Three states and dozens of industry plaintiffs quickly challenged the new standards. EPA announced that the 1-hour ozone standard will no longer apply to an area one year after the effective date of the designation of that area for the 8-hour ozone air quality standard. (See Federal Register, April 30, 2004, Volume 69, Number 84). EPA revoked the 1-hour ozone air quality standards on June 15, 2005, but the 1-hour ozone maintenance plan requirements will remain enforceable as part of the approved SIP until such time as EPA approves an 8-hour SIP. Out-state Missouri has always been in attainment for ozone.

2.2 Particulate Matter

EPA also promulgated PM total suspended particulate (TSP) NAAQS in 1971 which set the primary standard (the level where human health is affected) at $260 \mu\text{g}/\text{m}^3$ for a 24-hour average and $75 \mu\text{g}/\text{m}^3$ for an annual geometric mean. EPA set the secondary standard (the level where the public's welfare, other than health, such as property damage is affected) at $150 \mu\text{g}/\text{m}^3$ for a 24-hour average. The Clean Air Act requires EPA to review the standards every five years as new data becomes available, and revise any standard as justified.

On July 1, 1987, after extensive review and public comment covering a nine year period, EPA published its final decision in the Federal Register concerning a revision to the particulate matter standard, which became effective July 31, 1987. The revisions:

- replaced the pollutant indicator for the standard from TSP to PM_{10} ;
- set the primary, health related 24-hour standard to $150 \mu g/m^3$;
- set the primary annual standard to $50 \mu g/m^3$; and
- set the secondary standards equal to the primary standards.

2.2.1 Historical Particulate Matter Monitoring Network.

The original monitoring network was set up at the following locations:

1. St. Louis, MO
 - Eight monitors in the Missouri portion of the St. Louis metropolitan area
2. Kansas City, MO
 - Five monitors in the Missouri portion of the Kansas City metropolitan area
3. Springfield, MO
 - Three monitors
4. St. Joseph, MO
 - One monitor
5. Other monitors in the state
 - Hannibal, MO
 - Mexico, MO;
 - Columbia, MO
 - Herculaneum, MO; and
 - Mark Twain State Park in Monroe County.

2.2.2 Historical Analysis of Air Quality Data

Data for 1985, 1986 and 1987 showed no violations in the three-year-period of the PM_{10} NAAQS.

The data did show exceedances of the standards as follows:

- The monitor at St. Joseph had an annual mean value of $51.7 \mu g/m^3$ (exceeding 50) in 1985.
- The monitor in Mexico had a 24-hr exceedance of $164 \mu g/m^3$ (exceeding 150) on Aug. 1, 1987

The above exceedances were not violations of the standards for the following reasons:

1. The annual exceedance in St. Joseph in 1985 occurred before a change in monitoring equipment operation for PM_{10} was initiated by EPA in mid-1986. Following this change, lower values for PM_{10} (about 20 percent less) were being taken than before

the change at the same monitoring sites, and with that difference applied at the St. Joseph monitor for the 1985 exceedance, the adjusted value was below the annual standard.

2. The 24-hour exceedance in Mexico was the only one at that monitor during that calendar year. The standard allows one 24-hour exceedance per year at any one monitored site without being in violation of the standard.

On July 18, 1997, EPA revised the particulate matter standards to include a new national primary and secondary ambient air quality standard for PM_{2.5} (See Federal Register, July 18, 1997, Volume 62, Page 38711, Notices as amended at Federal Register July 30, 2004 Vol. 69. Page 45595).

Out-state Missouri has always been in attainment for the PM standards except for the exceedances addressed by the Columbia Particulate Matter SIP (1980), Mexico Particulate Matter SIP (1979) and St. Joseph Particulate Matter SIP (1980).

There have also been exceedances by point sources at times that have been addressed by consent agreements and through permit modifications. The charcoal industry has been regulated by rule 10 CRS 10-6.330 "Restriction of Emissions from Batch-Type Charcoal Kilns" because of excess PM and opacity violations in the past.

2.3 Long Range Transport

During the mid-1990's, the EPA, states, and local agencies began to evaluate the impacts of long range transport of emissions on nonattainment areas for NAAQS. This evaluation led to EPA's promulgation of a SIP call to reduce nitrogen oxide emissions (NO_x SIP Call). Missouri was not included in the first phase of the NO_x SIP Call. However, Missouri developed a NO_x transport regulation, 10 CSR 10-6.350 "Emission Limitations and Emissions Trading of Oxides of Nitrogen". This regulation was developed to fulfill the state's requirements under the EPA's 1-hour ozone attainment date extension policy as it applies to the St. Louis ozone nonattainment area. This regulation achieved NO_x emission reductions throughout the state of Missouri by placing an emission

rate limit on electric generating units and established a rate based trading program, similar to EPA's Acid Rain Program.

EPA promulgated Phase II of the NO_x SIP Call in 2004. The SIP call required Missouri to reduce NO_x emissions from electric generating units, cement kilns, industrial boilers, and stationary internal combustion engines. Missouri developed regulations to implement the requirements of EPA's NO_x SIP call. These regulations became effective in October of 2005 and were approved by the EPA on Aug. 15, 2006.

In March of 2005, EPA promulgated the Clean Air Interstate Rule (CAIR). This rule was designed to reduce NO_x and sulfur dioxide emissions from affected states to levels that would not significantly impact any neighboring states' ability to attain or maintain the NAAQS for ozone and fine particulate. This rule does apply to Missouri. Missouri began holding workgroup meetings to implement this rule in August of 2005 and is working toward rule development in response to CAIR. EPA finalized a Federal Implementation Plan for CAIR in April of 2006. This plan will remain in place until EPA approves a state plan.

3.0 All State Area Designations, (including out-state, Springfield/Greene County, Kansas City 8-Hour Ozone Maintenance Area and the St. Louis 8-Hour Ozone Nonattainment and Particulate Matter 2.5 nonattainment area)

3.1 All State Area Designations

All State Area Designations are listed in Appendix G

3.2 Out State Design Values

Out-State Design Values are listed in Appendix H

4.0 Administrative Requirements

4.1 Section 110: Requirements of the Clean Air Act Amendments of 1990

This section of the plan provides an explanation of how each applicable Clean Air Act (CAA) requirement is attained.

Implementation Plans Requirements of the Clean Air Act Amendments of 1990.

Section 110. Implementation Plans

(a)(1) Each state shall, after reasonable notice and public hearings, adopt and submit to the Administrator, within 3 years (or such shorter period as the Administrator may prescribe) after the promulgation of a national primary ambient air quality standard (or any revision thereof) under section 109 for any air pollutant, a plan which provides for implementation, maintenance, and enforcement of such primary standard in each air quality control region (or portion thereof) within such state. In addition, such state shall adopt and submit to the Administrator (either as a part of a plan submitted under the preceding sentence or separately) within 3 years (or such shorter period as the Administrator may prescribe) after the promulgation of a national ambient air quality secondary standard (or revision thereof), a plan which provides for implementation, maintenance, and enforcement of such secondary standard in each air quality control region (or portion thereof) within such state. Unless a separate public hearing is provided, each state shall consider its plan implementing such secondary standard at the hearing required by the first sentence of this paragraph.

The 1972 Kansas City and out state plan was written to fulfill the original national ambient air quality standards. As mentioned in the Executive Summary of this document, this new state of Missouri plan has been written to fulfill the CAA section 110(a)(1) requirements by including revisions to include the new 8-hour ozone and PM_{2.5} primary and secondary standards.

(2) Each implementation plan submitted by a state under this Act shall be adopted by the state after reasonable notice and public hearing. Each such plan shall—

(A) include enforceable emission limitations and other control measures, means, or techniques (including economic incentives such as fees, marketable permits, and auctions of emissions rights), as well as schedules and timetables for compliance, as may be necessary or appropriate to meet the applicable requirements of this Act;

State rule 10 CSR 10-6.010 “Ambient Air Quality Standards” and facilities individual rules, permits and consent agreements fulfill the requirements of 110(a)(2)(A).

(2)(B) provide for establishment and operation of appropriate devices, methods, systems, and procedures necessary to –

- (i) monitor, compile, and analyze data on ambient air quality, and*
- (ii) upon request, make such data available to the Administrator;*

The department's Air Pollution Control Program's Air Quality Analysis Section was created to and is maintained to fulfill the requirements of 110(a)(2)(B).

(2)(C) include a program to provide for the enforcement of the measures described in subparagraph (A), and regulation of the modification and construction of any stationary source within the areas covered by the plan as necessary to assure that national ambient air quality standards are achieved, including a permit program as required in parts C and D;

The department's Air Pollution Control Program's Enforcement Section and Permits Section was created and is maintained to fulfill the requirements of 110(a)(2)(C).

(2)(D) contain adequate provisions –

- (i) prohibiting, consistent with the provisions of this title, any source or other type of emissions activity within the state from emitting any air pollutant in amounts which will –*
- (I) contribute significantly to nonattainment in, or interfere with maintenance by, any other state with respect to any such national primary or secondary ambient air quality standard, or*
- (II) interfere with measures required to be included in the applicable implementation plan for any other state under part C to prevent significant deterioration of air quality or to protect visibility,*
- (III) insuring compliance with the applicable requirements of sections 126 and 115 (relating to interstate and international pollution abatement);*

To fulfill the requirements of section 110 (a)(2)(D), several actions have been implemented over time.

Visibility Protection

EPA has made no determination that emissions from any state interfere with 1980 visibility plan measures required to be included in a plan to address reasonably attributable visibility impairment. EPA is not aware of any certification of existing reasonably attributable impairment of visibility by a Federal Land Manager that has not already been resolved.

Based on this information, no source in Missouri emits pollutants that interfere with measures included in visibility plans under 1980 regulations.

At this time, Missouri's current nonattainment/maintenance plans for the 8-hour ozone and PM_{2.5} NAAQS are under development. It is expected that these plans will benefit visibility protected areas in Missouri and other neighboring states. This is primarily due to the inclusion of NO_x and SO₂ controls under the Clean Air Interstate Rule and NO_x SIP call regulations. Also, Missouri is working with the Central States Regional Air Partnership (CENRAP) regional planning organization in development of a regional haze plan that is due to be submitted to EPA December 2007. This on-going regional haze plan development process is intended to address incoming visibility impairing pollutants from sources in other states and Missouri source contribution on Missouri Class I areas as well as other states' protected areas.

Prevention of Significant Deterioration

All major sources located in attainment areas in the State of Missouri are currently subject to Prevention of Significant Deterioration (PSD) permitting under state rule 10 CSR 10-6.060 Construction Permits Required section (8). Major sources located in nonattainment areas are currently regulated under a Nonattainment New Source Review (NNSR) permitting program under state rule 10 CSR 10-6.060 Construction Permits Required section (7). Missouri believes that the current rule 10 CSR 10-6.060 Construction Permits Required rule meets the requirements of the Phase II ozone implementation rule as St. Louis is classified as a moderate ozone nonattainment area. Missouri will follow EPA's most current policy on the implementation of all PSD and NNSR regulations as they relate to the implementation of the NAAQS. Missouri will also adopt EPA's revised regulations implementing the revisions to the NAAQS as expeditiously as possible. This will include the adoption of permitting requirements into the state permitting rules as soon as possible.

Prevention of Significant Contribution

Several rules have been implemented and are in development to prevent Missouri emissions from significantly contributing to nonattainment in other states or interfering with maintenance in other states with respect to any such national primary or secondary ambient air quality standard.

Four (4) rules have been implemented to establish a NO_x emissions trading program for the state of Missouri; establish an emission budget for large electric generating units and non-electric generating boilers; establish NO_x control equipment and NO_x emission levels for cement kilns; and establish emission levels for large stationary internal combustion engines.

These four (4) state rules are 10 CSR 10-6.350 “Emission Limitations and Emissions Trading of Oxides of Nitrogen”; 10 CSR 10-6.360 “Control of NO_x Emissions From Electric Generating Units and Non-Electric Generating Boilers”; 10 CSR 10-6.380 “Control of NO_x Emissions From Portland Cement Kilns”; and 10 CSR 10-6.390 “Control of NO_x Emissions From Large Stationary Internal Combustion Engines”.

Four (4) additional rules are in development to address a Clean Air Interstate Rule Annual NO_x Trading Program; a Clean Air Interstate Rule Seasonal NO_x Trading Program; a Clean Air Interstate Rule SO₂ Trading Program; and Control of Mercury Emissions From Electric Generating Units. (See Appendix J for Clean Air Interstate Rules and Clean Air Mercury Rule MACC Adoption Certifications).

(2)(E) provide (i) necessary assurances that the state (or, except where the Administrator deems inappropriate, the general purpose local government or governments, or a regional agency designated by the state or general purpose local governments for such purpose) will have adequate personnel, funding, and authority under state (and, as appropriate, local) law to carry out such implementation plan (and is not prohibited by any provision of Federal or state law from carrying out such implementation plan or portion thereof), (ii) requirements that the state comply with the requirements respecting state boards under section 128, and (iii) necessary assurances that, where the state has relied on a local or regional government, agency, or instrumentality for the implementation of any plan provision, the state has responsibility for ensuring adequate implementation of such plan provision;

The Missouri Air Conservation Law (643.079, RSMo) requires the Missouri Air Conservation Commission to set an annual air pollution emission fee to fund the reasonable cost of administering this law. Section 643, RSMo also provides the authority necessary to carry out the state implementation plan requirements. The department's Air Pollution Control Program also has signed state and local agreements with St Louis City, St. Louis County, Kansas City and Springfield/and with the surrounding states fulfills the requirements of 110(a)(2)(E).

(2)(F) require, as may be prescribed by the Administrator –

- (i) the installation, maintenance, and replacement of equipment, and the implementation of other necessary steps, by owners or operators of stationary sources to monitor emissions from such sources,*
- (ii) periodic reports on the nature and amounts of emissions and emissions-related data from such sources, and*
- (iii) correlation of such reports by the State agency with any emission limitations or standards established pursuant to*

this Act, which reports shall be available at reasonable times for public inspection;

State rule requirements fulfill the requirements of 110(a)(2)(F).

(2)(G) provide for authority comparable to that in section 303 and adequate contingency plans to implement such authority;

State rule 10 CSR 10-6.130 “Controlling Emissions During Episodes of High Air Pollution Potential” and contingency elements in the St. Louis nonattainment SIP and Kansas City maintenance SIP fulfill the requirements of 110(a)(2)(G).

(2)(H) provide for revision of such plan –

- (i) from time to time as may be necessary to take account of revisions of such national primary or secondary ambient air quality standard or the availability of improved or more expeditious methods of attaining such standard, and*
- (ii) except as provided in paragraph (3)(C), whenever the Administrator finds on the basis of information available to the Administrator that the plan is substantially inadequate to attain the national ambient air quality standard which it implements or to otherwise comply with any additional requirements established under this Act;*

Affirmation letter dated September 27, 2004 to Chief, Air Planning and Development Branch, U.S. Environmental Protection Agency, Region VII regarding the state of Missouri’s responsibilities related to section 110(a) of the Clean Air Act. This letter reaffirms that we have full authority under section 110(a) to implement the revised National Ambient Air Quality Standards and fulfills the requirements of 110(a)(2)(H).

(2)(I) in the case of a plan or plan revision for an area designated as a nonattainment area, meet the applicable requirements of part D (relating to nonattainment areas);

Affirmation letter dated September 27, 2004 to Chief, Air Planning and Development Branch, U.S. Environmental Protection Agency, Region VII regarding the state of Missouri’s responsibilities related to section 110(a) of the Clean Air Act. This letter reaffirms that we have full authority under section 110(a) to implement the revised National Ambient Air Quality Standards and fulfills the requirements of 110(a)(2)(I).

(2)(J) meet the applicable requirements of section 121 (relating to consultation), section 127 (relating to public notification), and part C

(relating to prevention of significant deterioration of air quality and visibility protection);

The department's Air Pollution Control Program's rulemaking process public participation fulfills the requirements of 110(a)(2)(J).

(2)(K) provide for –

- (i) the performance of such air quality modeling as the Administrator may prescribe for the purpose of predicting the effect on ambient air quality of any emissions of any air pollutant for which the Administrator has established a national ambient air quality standard, and*
- (ii) the submission, upon request, of data related to such air quality modeling to the Administrator;*

The department's Air Pollution Control Program's Air Quality Analysis Section was created and is maintained to fulfill the requirements of 110(a)(2)(K).

(2)(L) require the owner or operator of each major stationary source to pay to the permitting authority, as a condition of any permit required under this Act, a fee sufficient to cover –

- (i) the reasonable costs of reviewing and acting upon any application for such a permit, and*
- (ii) if the owner or operator receives a permit for such source, the reasonable costs of implementing and enforcing the terms and conditions of any such permit (not including any court costs or other costs associated with any enforcement action),*

until such fee requirement is superseded with respect to such sources by the Administrator's approval of a fee program under title V;

The department's Air Pollution Control Program's Permits Section and rules 10 CSR 10-6.060 Construction Permits Required, 10 CSR 10-6.061 Construction Permit Exemptions, 10 CSR 10-6.062 Construction Permits by Rule and 10 CSR 10-6.065 Operating Permits fulfills the requirements of 110(a)(2)(L).

(2)(M) provide for consultation and participation by local political subdivisions affected by the plan.

The department's Air Pollution Control Program's signed State and Local Agreements with St Louis City, St. Louis County, Kansas City and Springfield/Greene as well as participation with the Mid-America Regional Council; East-West Gateway Coordinating Council; the St.

Louis East-West Gateway Council of Governments and rulemaking process public participation fulfills the requirements of 110(a)(2)(M).

4.2 Legal Authority

The Missouri Air Conservation Commission (MACC) is granted legal authority to develop and implement regulations regarding air pollution under section 643.050 of the Revised Statutes of Missouri (RSMo).

Under the current SIP and Missouri statutes, the state has the necessary infrastructure, resources and general authority to address the new 8-hour ozone air quality and PM_{2.5} standards.

The specific powers and duties of the state are outlined in section 643.050, RSMo “Powers and Duties of the Commission”, 643.055, RSMo “Commission May Adopt Rules for Compliance with Federal Law”, and 643.060, RSMo “Powers and Duties of Director”.

The MACC is the air pollution control agency of the state and has the authority, pursuant to chapter 536, RSMo “Administrative Procedure and Review”, to promulgate rules and regulations to establish standards and guidelines to ensure that the State of Missouri is in compliance with the provisions of the federal Clean Air Act.

These statutes grant the MACC and the director direct authority to implement any federal standards through state rules and procedures. A copy of the Missouri Air Conservation Law (Appendix A) that pertains to the powers and duties of the commission and the director are in sections 643.010-643.070, RSMo. Missouri’s complete air law is in sections 643.010-643.620, RSMo.

4.3 Commitment to Revise Plans

An affirmation letter, (Appendix B), dated Sept. 27, 2004 to Chief, Air Planning and Development Branch, U.S. Environmental Protection Agency, Region VII regarding the state of Missouri’s responsibilities related to section 110(a) of the Clean Air Act. This letter reaffirms that we have full authority under section 110(a) to implement the revised National Ambient Air Quality Standards.

4.4 Public Hearing Notice and Certification

The Missouri Department of Natural Resources’ Air Pollution Control Program is required to announce a public hearing at least 30 days prior to holding such hearing. This was accomplished by announcements submitted to newspapers at least 30 days prior to the public hearing which occurred on December 7, 2006. The public hearing notice along with

certification of publication of the public notice for this plan amendment is in Appendix D.

4.5 Comments, Responses and Explanations of Change

The department's Air Pollution Control Program's responses to comments received during the open public comment period on this plan are in Appendix E. The comment period was open for seven (7) days after the Public Hearing on December 7, 2006. The department's Air Pollution Control Program is required to respond to all comments.

4.6 Missouri Air Conservation Commission Adoption Certification

The MACC adoption certification to demonstrate approval by the commission of the state implementation plan amendment is in Appendix F.

5.0 Quality Assurance Program

The department's Air Pollution Control Program quality assures all data in accordance with 40 CFR 58.10 and the department's Air Pollution Control Program standard operating procedures for operating the ambient monitoring networks and validating the data. The department's Air Pollution Control Program records the data in the U.S. Environmental Protection Agency's (EPA's) Aerometric Information Retrieval System (AIRS) database, which is available to the public.

5.1 Air Quality Analysis for 2005 Air Quality (9/30/05)

The following information is for the ambient air monitors operated by all reporting organizations including state, local, and industry which is updated to the EPA AIRS database for 2005. The total number of exceedances of the NAAQS to date in 2005 are summarized below:

- Ozone**

All areas in the state are in compliance with the 1-hour ozone air quality standard. St. Louis is classified as a moderate non-attainment area for the 8-hour standard. There were 98 exceedances of the 8-hour ozone air quality standard in 2005. Two sites, West Alton and Orchard Farm, are in violation for 2003 to 2005.

- PM_{2.5}**

All Missouri sites now meet both the 24-hour and annual standards. The St. Louis area remains in violation for 2002 to 2004 due to two Illinois sites, Granite City (16.9 $\mu\text{g}/\text{m}^3$) and East St. Louis (15.4 $\mu\text{g}/\text{m}^3$), that are over the annual standard.

- **Data Completeness**

Data completeness for Missouri is typically excellent, averaging percentages in the high 90s. Data completeness for the first three calendar quarters was 97%, 97%, and 96%. The Ladue PM_{2.5} monitor lacked the most complete data at 57% in the second quarter and 36% in the third due to mechanical problems. Only one other monitor has a quarter less than 75%, the PM_{2.5} sampler at the University of Missouri, Kansas City. This, however, was attributable to operator error.

- **Missouri Air Quality Monitor Data for Years 2003, 2004 and 2005**

See Appendix H

5.2 Ozone and Particulate Matter 2.5 Monitoring Network

- **Missouri Air Quality Monitors Locations**

See Appendix I

6.0 List of Appendices

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APPENDIX A

6.1 Appendix A MISSOURI AIR CONSERVATION LAW

The Missouri Air Conservation Law is available for viewing at;

<http://www.moga.mo.gov/statutes/chapters/chap643.htm>

APPENDIX B

6.2 Appendix B Commitment Letter to Revise Plans

Affirmation letter dated September 27, 2004 to Chief, Air Planning and Development Branch, U.S. Environmental Protection Agency, Region VII regarding the state of Missouri's responsibilities related to section 110(a) of the Clean Air Act. This letter reaffirms that we have full authority under section 110(a) to implement the revised National Ambient Air Quality Standards.



Bob Holden, Governor • Stephen M. Mahfood, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

SEP 27 2004

Mr. Joshua A. Tapp
Chief, Air Planning and Development Branch
EPA Region VII
901 North 5th Street
Kansas City, KS 66101

Dear Mr. Tapp:

This letter is in response to your correspondence of April 29, 2004, to Ms. Leanne J. Tippett regarding the state of Missouri's responsibilities related to section 110(a) of the Clean Air Act. This letter reaffirms that we have full authority under section 110(a) to implement the revised National Ambient Air Quality Standards (NAAQS).

Pursuant to the revised and new NAAQS for ozone and particulate matter (PM), we have evaluated the rules in our current state implementation plan (SIP) to determine if any revisions are necessary.

Under the current SIP and Missouri statute, the state has the necessary infrastructure and general authority to address the revised ozone and PM₁₀ standards and the new PM_{2.5} standard. Specifically, 643.050, RSMo Powers and Duties of the Commission, 643.055, RSMo Commission May Adopt Rules for Compliance with Federal Law, and 643.060, RSMo Powers and Duties of Director grant the Missouri Air Conservation Commission and the Director of the Department of Natural Resources direct authority to implement any federal standards through state rules and procedures.

We have evaluated our current SIP for section 110 ("110 SIP") with regards to the new standards. The current SIP can be amended to implement the revised ozone and new PM₁₀ and PM_{2.5} emissions inventories, monitoring networks, and modeling. All control measures under the old PM₁₀ standard have been implemented and continue to be enforced except rule 10 CSR 10-6.330 Restriction of Emissions from Batch-Type Charcoal Kilns. This rule was adopted on March 26, 1998, and was effective on July 30, 1998. The phasing in of control of the kilns will be finalized in 2005.

Missouri is committed to revising the following state rules for ozone and particulate matter by the June 15, 2007 deadline as necessary so that they reflect the revised ozone and particulate standards.

Integrity and excellence in all we do

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Mr. Joshua A. Tapp
Page Two

1. 10 CSR 10-6.010 Ambient Air Quality Standards.
 - Update Table to reflect new revisions to the NAAQS.
2. 10 CSR 10-6.020 Definitions and Common Reference Tables.
 - Add PM_{2.5} definition.
 - Update Table 1 to include PM_{2.5} and to reflect new revisions to the NAAQS.
3. 10 CSR 10-6.030 Sampling Methods for Air Pollution Sources.
 - Update 6.030(5), Particulate Emissions, to include a better explanation of PM_{2.5} monitoring.
4. 10 CSR 10-6.040 Reference Methods.
 - Update 6.040(4) to include the new PM_{2.5} standard.
5. 10 CSR 10-6.060 Construction Permits Required.
 - Update Table 6.060(11)(A) to include PM_{2.5}.
 - Update Table 6.060 (11)(B) to include PM_{2.5} if required.
 - Update Table 6.060(11)(D) to include PM_{2.5}.
 - Update Table 6.060(12) Appendix H to include the new PM_{2.5} standard.
 - Update Emissions Inventory Questionnaire to include PM_{2.5}.
 - Update Form 3.0, Emission Fee Calculation to include PM_{2.5}.
6. 10 CSR 10-6.065 Operating Permits.
 - Update 6.065(1)(D)3.D. to include PM_{2.5}.
7. 10 CSR 10-6.130 Controlling Emissions During Episodes of High Air Pollution Potential.
(Please note this rule currently requires no change but it will be reviewed for any necessary changes when EPA updates 40 CFR part 51, Appendix L in the future.)
8. 10 CSR 10-2.390 Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 U.S.C. or the Federal Transit Laws.
(Please note this rule will need to be updated to include PM_{2.5} when the federal conformity rules are updated to include PM_{2.5}.)
9. 10 CSR 10-5.480 Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 U.S.C. or the Federal Transit Laws
(Please note this rule will need to be updated to include PM_{2.5} when the federal conformity rules are updated to include PM_{2.5}.)

Mr. Joshua A. Tapp
Page Three

Thank you for your assistance and guidance concerning the 110 SIP requirements. If you have any questions or comments, you can contact me with the Air Pollution Control Program at P.O. Box 176, Jefferson City, MO 65102 or by phone at (573) 751-4817.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

Leanne Tippett Mosby

Leanne Tippett Mosby
Director

LTM:pms

c: Stephen Mahfood, Director's Office
James D. Werner, Air and Land Protection Division

APPENDIX C

6.3 Appendix C Effective State Rules and Forms

The Missouri air pollution control rules are available for viewing at;

<http://www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-10>

The Missouri air pollution control forms are available for viewing at;

<http://intranet.dnr.state.mo.us/forms/forms.htm>

APPENDIX D

6.4 Appendix D November 2006 Public Hearing Notice and Certification of Publication of the Notice

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2006 NOV -9 PM 1:09

MISSOURI AIR CONSERVATION COMMISSION
WILL HOLD PUBLIC HEARING

AFFIDAVIT OF PUBLICATION

AIR POLLUTION CONTROL PGM

THE KANSAS CITY STAR COMPANY, publishers of
THE KANSAS CITY STAR, a newspaper published in
the City of Kansas City, County of Jackson, State of
Missouri, confirms that the notice and/or advertisement of

MO DEPT OF NATURAL RESOURCES
AIR POLLUTION CONTROL PRO
POB 176
JEFFERSON CITY MO 65102
24307683

7510572

a true copy of which is hereto attached,
was duly published in the above said newspaper

FOR THE PERIOD OF: 1 Day (s)

COMMENCING: November 5,2006

ENDING: November 5,2006

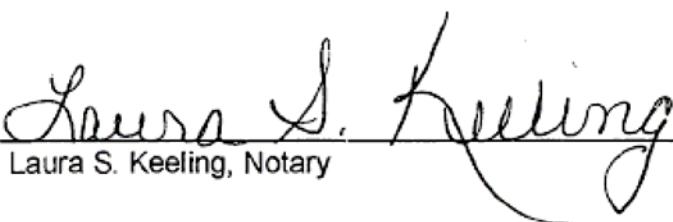
STAR EDITION (S): 11/ 5

STAR PAPER (S): 49

VOLUME: #127

Subscribed and sworn to before me,
this Monday, 06 November, 2006 .

I certify that I was duly qualified
as a Notary Public for the State of
Missouri, commissioned in Jackson
County, Missouri. My commission
expires September 10, 2010.


Laura S. Keeling, Notary

LAURA S. KEELING Notary Public - Notary Seal State of Missouri Commissioned for Jackson County My Commission Expires: September 10, 2010 06429929
--

JEFFERSON CITY, MO - The Missouri Air Conservation Commission will hold a public hearing on Construction Permits By Rule; Clean Air Interstate Rule Annual, Seasonal, and Sulfur Dioxide (SO₂) Trading Programs; Emission Limitations and Emissions Trading of Oxides of Nitrogen; Control of NO_x Emissions From Electric Generating Units and Non-Electric Generating Boilers; Control of Mercury Emissions From Electric Generating Units; and State of Missouri Plan for Implementation, Maintenance and Enforcement of National Ambient Air Quality Standards on Thursday, December 7, 2006. The Public Hearing will begin at 9 a.m. at the Elm Street Conference Center, 1738 East Elm Street, Lower Level, Roaring River Conference Room, Jefferson City, MO. The commission will hear testimony related to the following rule actions.

• 10 CSR 10-6.062 Construction Permits By Rule

This proposed amendment addresses the U.S. Environmental Protection Agency's (EPA's) concerns that the rule as written doesn't provide a clear pre-construction review period and therefore, isn't approvable into the State Implementation Plan. Language is being added to state the department has seven (7) days to do a pre-construction permit review.

• 10 CSR 10-6.362 Clean Air Interstate Rule Annual NO_x Trading Program

The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce NO_x emissions from electric generating units beginning in 2009. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

• 10 CSR 10-6.264 Clean Air Interstate Rule Seasonal NO_x Trading Program

The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce NO_x emissions from electric generating units beginning in 2009. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

• 10 CSR 10-6.356 Clean Air Interstate Rule SO₂ Trading Program

The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce SO₂ emissions from electric generating units beginning in 2010. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

• 10 CSR 10-6.350 Emission Limitations and Emissions Trading of Oxides of Nitrogen

This proposed amendment would remove the requirements of this rule upon the implementation of proposed rule 10 CSR 10-6.362. The requirements of 10 CSR 10-6.362 are more stringent than this rule.

• 10 CSR 10-6.360 Control of NO_x Emissions From Electric Generating Units and Non-Electric Generating Boilers

This proposed amendment would remove the requirements of this rule upon the implementation of proposed rule 10 CSR 10-6.362. The requirements of 10 CSR 10-6.362 are more stringent than this rule.

• 10 CSR 10-6.368 Control of Mercury Emissions From Electric Generating Units

The U.S. Environmental Protection Agency's (EPA) Clean Mercury Interstate Rule required states to develop regulations to reduce mercury emissions from electric generating units beginning in 2010. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

• Missouri State Implementation Plan - State of Missouri Plan for Implementation, Maintenance, and Enforcement of National Ambient Air Quality Standards

The purpose of this document is to fulfill the requirements of Section 110 of the Federal Clean Air Act Amendments (CAAA) of 1990. Section 110 of the CAAA requires that each state submit to the Administrator of the U.S. Environmental Protection Agency (EPA) a plan for the implementation, maintenance, and enforcement of the National Ambient Air Quality Standards in every air quality region within the state. This plan demonstrates the continued attainment of the primary and secondary standards for 8-hour ozone and for PM2.5.

The above documents will be available for review at the following locations: Missouri Department of Natural Resources, Air Pollution Control Program, 1659 Elm Street, Jefferson City, (573) 751-4837; Kansas City Regional Office, 500 NE Calhoun Road, Lee's Summit, (816) 622-7000; Northeast Regional Office, 1709 Prospect Drive, Macon, (660) 385-2129; Southeast Regional Office, 2155 N. Westwood Boulevard, Poplar Bluff, (573) 840-9750; St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, (314) 416-2960; Southwest Regional Office, 2040 W. Woodland, Springfield, (417) 891-4300.

Persons with disabilities requiring special services or accommodations to attend the meeting can make arrangements by calling the department directly at (573) 751-7840, the department's toll free number at (800) 334-6946, or by writing two weeks in advance of the meeting to: Missouri Department of Natural Resources, Air Conservation Commission Secretary, P.O. Box 176, Jefferson City, MO 65102. Hearing impaired persons may contact the program through Relay Missouri, (800) 735-2966.

The commission holds public hearings under the provisions of chapter 643, RSMo. Citizens wishing to speak at the public hearing should notify the secretary to the Missouri Air Conservation Commission, Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102-0176, or telephone (573) 751-7840. The department requests persons intending to give verbal presentations also provide a written copy of their testimony to the commission secretary at the time of the public hearing. The department will accept written comments for the record until 5 p.m. on December 14, 2006; please send two copies of written comments to Chief, Operations Section, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176.

Rule proposals considered at this hearing may be adopted by the Missouri Air Conservation Commission as provided for under authority of 643.050, RSMo. For

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St. Joseph News-Press, 825 Edmond St., St. Joseph, MO 64501

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Ad ID: 5253508 DESC. :Hearing 12/07/06

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MO DEPT NATURAL RESOURCES
AIR POLLUTION CONTROL PROGRAM
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176

County of Buchanan
State of Missouri

I, Leona Gillenwater, being duly sworn according to law, state that I am the Legal Advertising Coordinator of the St. Joseph News-Press, a daily newspaper of general circulation in the county of Buchanan, where located; which has been admitted to the Post Office as second class matter in the city of St. Joseph, the city of publication; where newspaper has been published regularly and consecutively for a period of three years and has a list of bona fide subscribers voluntarily engaged to pay a stated price for a subscription for a definite period of time, and that such newspaper has complied with the provisions of Section 493.050 Revised Statutes of Missouri, 1949. The affixed notice appeared in said newspaper on the following date:

Run Dates: 11/05/06 to 11/05/06
Appearances: 1
AD SPACE: 378
TOTAL COST: \$710.64
FILED ON 11/07/06

(Signed) *Leona Gillenwater*

Subscribed and sworn before me this
11 day of November 2006
Heather Sturtz Notary Public

Heather Sturtz
Notary Public Notary Seal
State of Missouri County of Buchanan
My Commission Expires 01/30/2010
Commission #06631729

(Published in the St. Joseph News-Press Sunday, November 5, 2006)
MISSOURI AIR CONSERVATION COMMISSION
WILL HOLD PUBLIC HEARING

JEFFERSON CITY, MO -- The Missouri Air Conservation Commission will hold a public hearing on Construction Permits By Rule; Clean Air Interstate Rule Annual, Seasonal, and Sulfur Dioxide (SO₂) Trading Programs; Emission Limitations and Emissions Trading of Oxides of Nitrogen; Control of NO_x Emissions From Electric Generating Units and Non-Electric Generating Boilers; Control of Mercury Emissions From Electric Generating Units; and State of Missouri Plan for Implementation, Maintenance and Enforcement of National Ambient Air Quality Standards on Thursday, December 7, 2006. The Public Hearing will begin at 9 a.m. at the Elm Street Conference Center, 1738 East Elm Street, Lower Level, Roaring River Conference Room, Jefferson City, MO. The commission will hear testimony related to the following rule actions.

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The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce NO_x emissions from electric generating units beginning in 2009. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.
- 10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NO_x Trading Program
The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce NO_x emissions from electric generating units beginning in 2010. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.
- 10 CSR 10-6.366 Clean Air Interstate Rule SO₂ Trading Program
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- 10 CSR 10-6.350 Emission Limitations and Emissions Trading of Oxides of Nitrogen
This proposed amendment would remove the requirements of this rule upon the implementation of proposed rule 10 CSR 10-6.362. The requirements of 10 CSR 10-6.362 are more stringent than this rule.
- 10 CSR 10-6.360 Control of NO_x Emissions From Electric Generating Units and Non-Electric Generating Boilers
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- 10 CSR 10-6.348 Control of Mercury Emissions From Electric Generating Units
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Rule proposals considered at this hearing may be adopted by the Missouri Air Conservation Commission as provided for under authority of 643.050, RSMo. For more information or a complete meeting agenda, including rules being presented for adoption, contact the Missouri Department of Natural Resources' Air Pollution Control Program at (573) 751-4817.

AFFIDAVIT OF PUBLICATION

— IN THE —

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ST. LOUIS, MISSOURI 63101

The attached advertisement

MONR - Air Pollution Control

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In the St. Louis Post-Dispatch

Nov. 4, 2006

(dates)

7524138

NOVEMBER 4, 2006 | STL TODAY.COM

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MISSOURI AIR CONSERVATION COMMISSION WILL HOLD PUBLIC HEARING

JEFFERSON CITY, MO. — The Missouri Air Conservation Commission will hold a public hearing on Construction Permits by Rule; Clean Air Interstate Rule Annual, Seasonal, and Sulfur Dioxide (SO2) Trading Program; Emission Limitations and Emissions Trading; Off-Grounds of Nitrogen Control of NOx Emissions From Electric Generating Units and Non-Electric Generating Boilers; Control of Mercury Emissions From Electric Generating Units; and State of Missouri Plan for Implementation, Maintenance and Enforcement of National Ambient Air Quality Standards on Thursday, December 7, 2006. The Public Hearing will begin at 9 a.m. at the Elm Street Conference Center, 1733 Elm Street, Lower Level, Roush River Conference Room, Jefferson City, MO. The commission will hear testimony related to the following rule actions.

* 10 CSR 10-6.002 Construction Permits by Rule

This proposed amendment addresses the U.S. Environmental Protection Agency's (EPA's) concerns that the rule as written doesn't provide a clear pre-construction review period and therefore, isn't applicable into the State Implementation Plan. Language is being added to state the department has seven (7) days to do a pre-construction permit review.

* 10 CSR 10-6.362 Clean Air Interstate Rule Annual NOx Trading Program

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* 10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NOx Trading Program

The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce NOx emissions from electric generating units beginning in 2009. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

Valery Jefferson

Valery Jefferson

(signed)

Company Representative

(title)

Sworn to and subscribed before me,

This 7th day of November, 2006

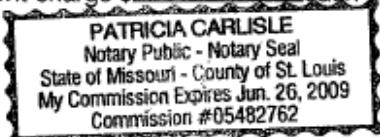
Patricia Carlisle

Notary Public, City of St. Louis

My term expires _____

Affidavit charge \$_____ each

06-10



emissions, generating units beginning in 2010. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

* 10 CSR 10-6.350 Emission Limitations and Emissions Trading of Ozone and Nitrogen Oxides

This proposed amendment would remove the requirements of this rule upon the implementation of proposed rule 10 CSR 10-6.362. The requirements of 10 CSR 10-6.362 are more stringent than this rule.

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AIR POLLUTION
CONTROL PGM

651 Boonville · MPO Box 798
Springfield, Missouri 65801
Telephone (417) 836-1100

November 7, 2006

PROOF OF PUBLICATION

STATE OF MISSOURI
County of Greene

I, Marsha Burnett of Springfield, Missouri, of lawful age, do upon my oath state that I am the Legal Clerk of the News-Leader, and that I am duly authorized to and do make this affidavit for and on behalf of the News-Leader, a newspaper published daily in the City of Springfield, Greene County, Missouri; that the public advertisement, notice or order of publication, a true copy of which is hereto attached, was published in said newspaper 1 time(s) upon the following dates:

First publication on Sunday, November 5, 2006

Second publication on

Third publication on

Fourth publication on

Last publication on

I do further state under oath that said newspaper has been admitted to the Post Office as second class matter; that it is a newspaper of general circulation in the City of Springfield, Missouri; that it has been published regularly and consecutively for a period of more than three years; that it has a list of bona fide subscribers voluntarily engaged as such; who have paid or agreed to pay a stated price for a subscription for a definite period of time, and that said newspaper has complied with the provisions of Section 14968 Revised Statutes of Missouri, 1939, relating to "Public Advertisements."

Pre me this

7th Day of November, 2006

Marsha Burnett
Amanda Shimp

Notary Public in and for
Greene County, Missouri

 GANNETT

rement of national ambient Air Quality Standards on Thursday, September 7, 2006. The public Hearing will begin at 9 a.m. at the Street Conference Center, 1738 East Elm Street, Lower Level, in the Riverfront Conference Room, inerson City, MO. The mission will hear testimony related to the proposed rule actions.

10 CSR 10-6.062
struction Permits By

ndment addresses U.S. Environmental Protection Agency's (EPA's) concerns that the as written doesn't provide a clear pre- truction review and therefore, isn't reviewable into the : Implementation. Language is being added to state the statement has seven (7) to do a pre- truction permit w.

10 CSR 10-6.362
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ram

The U.S. Environmental Protection Agency's Clean Air State Rule required states to develop regulations to reduce emissions from electric generating units starting in 2009. This proposed rule will accomplish that goal by setting Missouri's best sources in the national trading program established by EPA.

10 CSR 10-6.364
n Air Interstate Rule
onal NO_x Trading
ram

U.S. Environmental Protection Agency's Clean Air State Rule requires states to develop regulations to reduce emissions from generating units by 2009. This proposed rule will accomplish that goal by 2010. Missouri's feed sources in the national trading program will be established by EPA.

10 CSR 10-6.366
1 Air Interstate Rule
Trading Program

U.S. Environmental
Protection Agency's
Clean Air
State Rule required
to develop
emissions to reduce
emissions from
electric generating units

regional trading program established by EPA.

* Missouri State Implementation Plan
State of Missouri Plan
for Implementation
Maintenance and
Enforcement of National
Ambient Air Quality
Standards

AFFIDAVIT OF PUBLICATIO

The purpose of this document is to fulfill the requirements of the STATE OF MISSOURI) COUNTY OF BUTLER) Statute.

on
an
nts
on Schrieber, being duly sworn according to law, state that I am PUBLISHING
the **The Daily American Republic**, a daily newspaper of general circulation
in the Counties of Butler, Ripley, Carter, Wayne, Stoddard, New Madrid and
the Hickory; which newspaper has been admitted to the Post Office as second
class matter in City of Poplar Bluff, Missouri, the city of publication; which
newspaper has been published regularly and consecutively for a period of three
years and has a list of bona fide subscribers voluntarily engaged as such who
have paid or agreed to pay stated price for a subscription for a definite period
and that such newspaper has complied with the provisions of Section
.050, Revised Statutes of Missouri 1969. The affixed notice appeared
in the newspaper in the following consecutive issues.

The U.S. Environmental Protection Agency's Clean Air State Rule required states to develop regulations to reduce emissions from electric generating units beginning in 2009. This proposed rule will accomplish that goal by setting Missouri's best sources in the national trading program established by EPA.

10 CSR 10-6.364
Air Interstate Rule
on NOx Trading
ram

U.S. Environmental Protection Agency's Clean Air

ations to reduce emissions from electric generating units in 2009. This proposed rule will accomplish that goal by phasing in the most cost-effective sources in the national trading program established by EPA.

10 CSR 10-6.366
1 Air Interstate Rule
1 trading Program

U.S. Environmental
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state Rule required
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ted sources in the
nal trading program



Ben Schriber. PUBLISHER

scribed and sworn to before me this 6 day of November

Amber Hornbeck NOTARY PUBLIC

10 CSR 10-6.366
1 Air Interstate Rule
dated by LPA
writing two weeks in advance of the meeting
to: Missouri Department of Transportation
Commission expires
application Fee \$ 324.86

Trading Program of Natural Resources.

3-26-0

The commission holds public hearings under the provisions of chapter 643, RSMo. Citizens wishing to speak at the

Emission Limitations
and Emissions Trading
of Oxides of Nitrogen

This proposed amendment would remove the requirements of this rule upon the implementation of proposed rule 10 CSR 10-6.362. The requirements of 10 CSR 10-6.362 are more stringent than this rule.

* 10 CSR 10-6.360
Control of NOx
Emissions From Electric
Generating Units and
Non-Electric Generating
Boilers

This proposed amendment would remove the requirements of this rule upon the implementation of proposed rule 10 CSR 10-6.362. The requirements of 10 CSR 10-6.362 are more stringent than this rule.

* 10 CSR 10-6.368
Control of Mercury
Emissions From Electric
Generating Units

The U.S. Environmental Protection Agency's (EPA) Clean Mercury Interstate Rule required states to develop regulations to reduce mercury emissions from electric generating units beginning in 2010. This proposed rule will accomplish that goal by including Missouri's affected sources in the

Conservation
Commission, Missouri
Department of Natural
Resources, Air Pollution
Control Program, P.O.
Box 176, Jefferson City,
Missouri 65102-0176, or
telephone (573)751-
7840. The department
requests persons
intending to give verbal
presentations also
provide a written copy of
their testimony to the
commission secretary at
the time of the public
hearing. The department
also will accept written
comments for the record
until 5 p.m. on
December 14, 2006;
please send two copies
of written comments to
Chief, Operations
Section, Air Pollution
Control Program, P.O.
Box 176, Jefferson City,
MO 65102-0176.

Rule proposals
considered at this
hearing may be adopted
by the Missouri Air
Conservation
Commission as provided
for under authority of
643.050, RSMo. For
more information or a
complete meeting
agenda, including rules
being presented for
adoption, contact the
Missouri Department of
Natural Resources' Air
Pollution Control
Program at (573)751-
4817.

11/5, 2006

MISSOURI AIR
CONSERVATION
COMMISSION
WILL HOLD PUBLIC
HEARING

JEFFERSON CITY, MO
The Missouri Air
Conservation
Commission will hold a
public hearing on
Construction Permits By
Rule; Clean Air
Interstate Rule Annual,
Seasonal, and Sulfur
Dioxide (SO₂) Trading
Programs; Emission
Limitations and
Emissions Trading of
Oxides of Nitrogen;
Control of NOx
Emissions From Electric
Generating Units and
Non-Electric Generating
Boilers; Control of
Mercury Emissions
From Electric
Generating Units; and
State of Missouri Plan
for Implementation,
Maintenance and

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AIR POLLUTION
CONTROL PGM

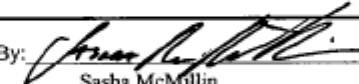
AFFIDAVIT OF PUBLICATION

STATE OF MISSOURI) ss.
County of Boone)

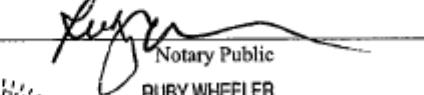
I, SASHA MCMILLIN, being duly sworn according to law, state that I am one of the publishers of the Columbia Daily Tribune, a daily newspaper of general circulation in the County of Boone, State of Missouri, where located; which newspaper has been admitted to the Post Office as periodical class matter in the City of Columbia, Missouri, the city of publication; which newspaper has been published regularly and consecutively for a period of three years and has a list of bona fide subscribers, voluntarily engaged as such, who have paid or agreed to pay a stated price for a subscription for a definite period of time, and that such newspaper has complied with the provisions of Section 493.050, Revised Statutes of Missouri 2000, and Section 59.310, Revised Statutes of Missouri 2000. The affixed notice appeared in said newspaper on the following consecutive issues:

1st Insertion November 3, 2006
2nd Insertion _____
3rd Insertion _____
4th Insertion _____
5th Insertion _____
6th Insertion _____
7th Insertion _____
8th Insertion _____
9th Insertion _____
10th Insertion _____
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17th Insertion _____
18th Insertion _____
19th Insertion _____
20th Insertion: _____
21st Insertion: _____
22nd Insertion: _____

\$207.37
Printer's Fee

By: 
Sasha McMillin

Subscribed & sworn to before me this 3 day of November, 2006


Notary Public



RUBY WHEELER
My Commission Expires
July 18, 2010
Boone County
Commission #06915807

MISSOURI AIR CONSERVATION COMMISSION
WILL HOLD PUBLIC HEARING

JEFFERSON CITY, MO -- The Missouri Air Conservation Commission will hold a public hearing on Construction Permits by Rule; Clean Air Interstate Rule Annual, Seasonal, and Sulfur Dioxide (SO2) Trading Programs; Emission Limitations and Emissions Trading of Oxides of Nitrogen; Control of NOx Emissions From Electric Generating Units and Non-Electric Generating Boilers; Control of Mercury Emissions From Electric Generating Units; and State of Missouri Plan for Implementation, Maintenance and Enforcement of National Ambient Air Quality Standards on Thursday, December 7, 2006. The Public Hearing will begin at 9 a.m. at the Elm Street Conference Center, 1738 East Elm Street, Lower Level, Roaring River Conference Room, Jefferson City, MO. The commission will hear testimony related to the following rule actions.

* 10 CSR 10-6.062 Construction Permits By Rule

The proposed amendment addresses the U.S. Environmental Protection Agency's (EPA's) concerns that the rule as written doesn't provide a clear pre-construction review period and therefore, isn't approveable into the State Implementation Plan. Language is being added to state the department has seven (7) days to do a pre-construction permit review.

* 10 CSR 10-6.362 Clean Air Interstate Rule Annual NOx Trading Program

The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce NOx emissions from electric generating units beginning in 2009. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

* 10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NOx Trading Program

The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce NOx emissions from electric generating units beginning in 2009. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

* 10 CSR 10-6.366 Clean Air Interstate Rule SO2 Trading Program

The U.S. Environmental Protection Agency's (EPA) Clean Air Interstate Rule required states to develop regulations to reduce SO2 emissions from electric generating units beginning in 2010. This proposed rule will accomplish that goal by including Missouri's affected sources in the regional trading program established by EPA.

* 10 CSR 10-6.350 Emission Limitations and Emissions Trading of Oxides of Nitrogen

This proposed amendment would remove the requirements of this rule upon the implementation of proposed rule 10 CSR 10-6.362. The requirements of 10 CSR 10-6.362 are more stringent than this rule.

* 10 CSR 10-6.360 Control of NOx Emissions From Electric Generating Units and Non-Electric Generating Boilers

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* 10 CSR 10-6.368 Control of Mercury Emissions From Electric Generating Units

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* Missouri State Implementation Plan - State of Missouri Plan for Implementation, Maintenance and Enforcement of National Ambient Air Quality Standards

The Purpose of this document is to fulfill the requirements of section 110 of the Federal Clean Air Act Amendments (CAAA) of 1990. Section 110 of the CAAA requires that each state submit to the Administrator of the U.S. Environmental Protection Agency (EPA) a plan for the implementation, maintenance and enforcement of the National Ambient Air Quality Standards in every air quality region within the state. This plan demonstrates the continued attainment of the primary and secondary standards for 8-hour ozone and for PM2.5.

The above documents will be available for review at the following locations: Missouri Department of Natural Resources, Air Pollution Control Program, 1659 Elm Street, Jefferson City, (573) 751-4817; Kansas City Regional Office, 500 NE Colbern Road, Lee's Summit, (816) 622-7000; Northeast Regional Office, 1709 Prospect Drive, Macon, (660) 385-2129; Southeast Regional Office, 2155 N. Westwood Boulevard, Poplar Bluff, (573) 840-9750; St. Louis Regional Office, 7545 S. Lindberg, Suite 210, St. Louis, (314) 416-2960; Southwest Regional Office, 2040 W. Woodland, Springfield, (417) 891-4300.

Persons with disabilities requiring special services or accommodations to attend the meeting can make arrangements by calling the department directly at (573) 751-7840, the department's toll free number at (800) 334-6946, or by writing two weeks in advance of the meeting to: Missouri Department of Natural Resources, Air Conservation Commission Secretary, P.O. Box 176, Jefferson City, MO 65102. Hearing impaired persons may contact the program through Relay Missouri, (800) 735-2966.

The commission holds public hearings under the provisions of chapter 643, RSMo. Citizens wishing to speak at the public hearing should notify the secretary to the Missouri Air Conservation Commission, Missouri Department of Natural Resources, Air Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102-0176, or telephone (573) 751-7840. The department requests persons intending to give verbal presentations also provide a written copy of their testimony to the commission secretary at the time of the public hearing. The department also will accept written comments for the record until 5 p.m. on December 14, 2006; please send two copies of written comments to Chief, Operations Section, Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102-0176.

Rule proposals considered at this hearing may be adopted by the Missouri Air Conservation Commission as provided for under authority of 643.050, RSMo. For more information or a complete meeting agenda, including rules being presented for adoption, contact the Missouri Department of Natural Resources' Air Pollution Control Program at (573) 751-4817.

INSERTION DATE: November 3, 2006.

RECEIVED

2006 NOV 13 PM 2:02

AIR MAIL
CONTROL PGM

AFFIDAVIT OF PUBLICATION
STATE OF MISSOURI
COUNTY OF ADAIR

I, Larry W. Freels, being duly sworn, according to law, state that I am the Publisher of Kirksville Daily Express, a daily newspaper of general circulation in the County of Adair, State of Missouri, where located; which newspaper has been admitted to the Post Office as periodical class matter in the City of Kirksville, Missouri, the city of publication; which newspaper has been published regularly and consecutively for a period of three years and has a list of bona fide subscribers, voluntarily engaged as such who have paid or agreed to pay a stated price for a subscription for a definite period of time, and that such newspaper has complied with the provisions of Section 493.050, Revised Statutes of Missouri 2000, and Section 59.310, Revised Statutes of Missouri 2000. The affixed notice appeared in said newspaper in the following consecutive issues.

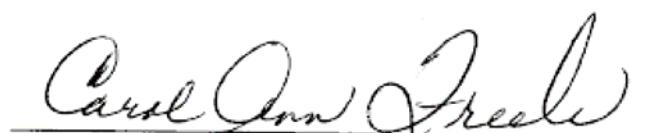
First Insertion Vol. 105, No. 263, 6th day of November ,2006



Publisher, Larry Freels

Subscribed and sworn to before me on this 7th day of

November, 2006



Carol Ann Freels - Notary Public
My Commission Expires February 21, 2007.

See reference of
legal on page 2.

Publication Fee \$388.13

Received payment _____

MISSOURI AIR CONSERVATION COMMISSION
WILL HOLD PUBLIC HEARING

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* 10 CSR 10-6.366 Clean Air Interstate Rule SO₂ Trading Program

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* 10 CSR 10-6.368 Control of Mercury Emissions From Electric Generating Units

Page 2

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1 rule.

2 The Department utilized a great deal of
3 diplomacy and negotiation to make this possible. And I
4 should extend that to the stakeholders who I know are here
5 in the meeting today as well as the Energy Center I notice
6 is here today as well. So that commendation should be
7 extended to them.

8 This does conclude my comments on these rules.
9 If there are any questions, I'd be happy to try and
10 address them at this time.

11 COMMISSIONER BAKER: Anybody have any questions
12 for Michael?

13 COMMISSIONER FOHEY: No.

14 COMMISSIONER BAKER: Okay.

15 MR. JAY: Thank you.

16 COMMISSIONER BAKER: Okay. Thank you for your
17 comments, and thanks on a job well done. The next one on
18 the list would be Paul McConnell.

19 PAUL MCCONNELL,

20 being first duly sworn to testify the truth, the whole
21 truth, and nothing but the truth, testified as follows:

22 MR. MCCONNELL: Chairman, Members of the
23 Commission, my name is Paul McConnell. I am employed with
24 the Air Pollution Control Program as an Environmental
25 Engineer. I work at 1659 East Elm Street, Jefferson City,

1 Missouri.

2 I'm here to present this proposed revision to
3 the Missouri State Implementation Plan, SIP. The plan
4 title is Implementation, Maintenance and Enforcement of
5 National Ambient Air Quality Standards.

6 This proposed change to the SIP will update
7 Section 110(a), Implementation Plan requirements, to
8 include the criteria pollutant National Ambient Air
9 Quality Standards, or NAAQS, new and revised eight-hour
10 ozone and fine particulate matter of PM2.5 standards
11 recently finalized.

12 This proposed plan action is on page 275 of the
13 briefing document. However, the complete Missouri SIP
14 element has not been reprinted in the briefing document
15 due to its volume. The entire -- the entire document is
16 available for review at the Department of Natural
17 Resources Air Pollution Control Program, P.O. Box 176,
18 Jefferson City, Missouri, 65102-0176. It is also
19 available online at
20 <http://www.dnr.mo.gov/env/apcp/docs/sip-naaqs.pdf>.

21 Background Ozone. U.S. Environmental Protection
22 Agency (EPA) established in 1971 a national primary and
23 secondary maximum one-hour NAAQS ozone standard of .08
24 parts per million. That is not to be exceeded more than
25 once per year.

APPENDIX E

6.5 Appendix E December 7, 2006 Public Hearing Comments and Responses

COMMENTS AND RESPONSES ON
PROPOSED REVISIONS TO
THE STATE OF MISSOURI PLAN FOR
IMPLEMENTATION, MAINTENANCE AND ENFORCEMENT OF
NATIONAL AMBIENT AIR QUALITY STANDARDS

On December 7, 2006, the Missouri Air Conservation Commission held a public hearing concerning a proposed revision to the Missouri State Implementation Plan (SIP) for the Implementation, Maintenance and Enforcement of National Ambient Air Quality Standards (NAAQS) plan. The following is a summary of comments received and the Missouri Department of Natural Resources' corresponding responses. Any changes to the proposed SIP are identified in the responses to comments.

SUMMARY OF COMMENTS: The Missouri Department of Natural Resources' Air Pollution Control Program received five (5) comments from the U.S. Environmental Protection Agency (EPA). EPA comments relate to clarifying the submission as it pertains to 110(a)(2)(D)(i). EPA also commented that they are reserving comments on the remainder of this plan until such time that EPA provides further guidance on aspects of 110 (other than Section 110(a)(2)(D)(i)).

COMMENT: The EPA suggests that Missouri separate the section of this document that specifically addresses Section 110(a)(2)(D)(i) from submittal and submit this portion separately to EPA for inclusion into the SIP. By separating out the portion of the submittal dealing with 110(a)(2)(D)(i), Missouri will be able to clearly address EPA's finding made in April 2005 that states failed to make statutorily required plan submissions addressing 110(a)(2)(D)(i) of the Clean Air Act (CAA) pertaining to interstate transport.

In regards to the portion of the SIP submittal which addresses all other requirements of 110(a)(1) and (2), Missouri's SIP submission addressing the 8-hour ozone NAAQS is due on December 15, 2007 and the PM_{2.5} NAAQS is due on October 5, 2008. As indicated in the August 2006 EPA guidance, the Agency intends to provide states with additional information concerning the elements of this SIP submittal, in separate regulations or guidance documents.

RESPONSE: Separating the section of this document that addresses Section 110(a)(2)(D)(i) would result in a disjointed document that is intended to address Section 110(a) requirements. When additional guidance is available for all other requirements of 110(a)(1) and (2), this plan will be reviewed and any revisions deemed necessary will be made as a revision to this document. Therefore, no changes have been made to this plan as a result of this comment. However, there were language changes made as a result of other comments to clarify which section of the document specifically addresses the requirements of 110(a)(2)(D)(i) of the CAA and to identify the elements the CAA requires to be addressed.

COMMENT: The EPA suggests that a short background section be included in the portion of the document that addresses 110(a)(2)(D)(i) to provide an explanation of this separate submittal.

RESPONSE: Since a separate submittal is not planned for the section of the document that addresses 110(a)(2)(D)(i), a separate background is not necessary since the Executive Summary in the plan covers background information. Therefore, no changes have been made to this plan as a result of this comment.

COMMENT: The EPA also commented that headings should be included in the section of the document that addresses 110(a)(2)(D)(i) of the CAA to clearly identify the elements required to be addressed (such as significant contribution, visibility protection and prevention of significant deterioration).

RESPONSE AND EXPLANATION OF CHANGE: As a result of this comment, headings have been added to identify the elements required to be addressed under 110(a)(2)(D)(i) of the CAA. These headings are: Visibility Protection, Prevention of Significant Deterioration, and Significant Contribution.

COMMENT: For the portion of 110(a)(2)(D)(i) which addresses prevention of significant deterioration, EPA suggests providing further clarification that Missouri's permitting regulations for the 8-hour ozone nonattainment area are consistent with EPA's Phase 1 and Phase 2 8-hour ozone implementation rule or will be revised to be consistent when Missouri submits the ozone plan due June 15, 2007. Also, the document should further state that Missouri is implementing, in the absence of a final PM_{2.5} implementation rule, an interim PM_{2.5} program that involves implementing Prevention of Significant Deterioration (PSD) and Nonattainment New Source Review (NNSR) programs for PM₁₀ as a surrogate for the PM_{2.5} requirements.

RESPONSE AND EXPLANATION OF CHANGE: As a result of this comment, the document language has been amended to more clearly define the program's intent to adopt EPA's regulations and policies related to changes in the implementation of the NAAQS. All major sources located in attainment areas in the State of Missouri are currently subject to PSD permitting under state rule 10 CSR 10-6.060 Construction Permits Required section (8). Major sources located in nonattainment areas are currently regulated under a NNSR permitting program required by state rule 10 CSR 10-6.060 Construction Permits Required section (7). Missouri believes that the current rule 10 CSR 10-6.060 Construction Permits Required rule meets the requirements of the Phase II ozone implementation rule as St. Louis is classified as a moderate ozone nonattainment area. Missouri will follow EPA's most current policy on the implementation of all PSD and NNSR regulations as they relate to the implementation of the NAAQS. Missouri will also adopt EPA's revised regulations implementing the revisions to the NAAQS as expeditiously as possible. This will include the adoption of permitting requirements into the state permitting rules as soon as possible.

COMMENT: For the portion of 110(a)(2)(D)(i) which addresses visibility protection, EPA suggests that the language be revised to state -- At this time, Missouri is assessing whether there is any interference with measures in another state designed to protect

visibility for the 8-hour ozone and PM_{2.5} NAAQS. Missouri is assessing visibility protection in conjunction with the Regional Haze SIP.

RESPONSE AND EXPLANATION OF CHANGE: In response to this comment, the language under the Visibility Protection portion of the plan has been changed to further describe how Missouri is addressing visibility protection. EPA has made no determination that emissions from any state interfere with 1980 visibility plan measures required to be included in a plan to address reasonably attributable visibility impairment. EPA is not aware of any certification of existing reasonably attributable impairment of visibility by a Federal Land Manager that has not already been resolved. Based on this information, no source in Missouri emits pollutants that interfere with measures included in visibility plans under 1980 regulations. At this time, Missouri's current nonattainment/maintenance plans for the 8-hour ozone and PM_{2.5} NAAQS are under development. It is expected that these plans will benefit visibility protected areas in Missouri and other neighboring states. This is primarily due to the inclusion of NO_x and SO₂ controls under the Clean Air Interstate Rule and NO_x SIP call regulations. Also, Missouri is working with the Central States Regional Air Partnership (CENRAP) regional planning organization in development of a regional haze plan that is due to be submitted to EPA December 2007. This on-going regional haze plan development process is intended to address incoming visibility impairing pollutants from sources in other states and Missouri source contribution on Missouri Class I areas as well as other states' protected areas.

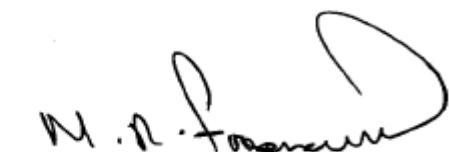
The document has not been reprinted in the briefing document due to its volume. The entire document is available for review at the Missouri Department of Natural Resources' Air Pollution Control Program, 1659 East Elm Street, P.O. Box 176, Jefferson City, MO 65102-0176. It is also available online at <http://www.dnr.mo.gov/env/apcp/stateplanrevisions.htm>.

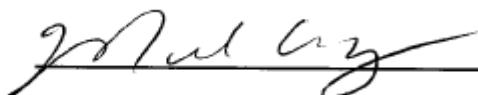
APPENDIX F

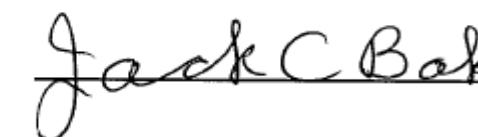
6.6 Appendix F MACC Adoption Certification

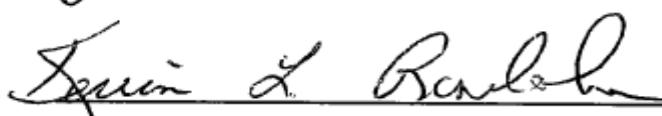
Pursuant to 643.055 RSMo, the Missouri Air Conservation Commission has determined that this action is needed to have a U.S. Environmental Protection Agency approved State Implementation Plan.

The State of Missouri Plan for Implementation, Maintenance, and Enforcement of National Ambient Air Quality Standards is hereby adopted by the Missouri Air Conservation Commission this 1st day of February, 2007.

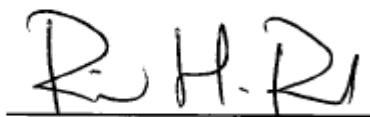

M. N. Tamm, Chairman


M. L. Clegg, Vice-Chairman


Jack C. Baker, Member


Kevin L. Randolph, Member


Sam J. Pender, Member


R. H. R., Member


Mark D., Member

APPENDIX G

6.7 Appendix G 8-Hour Ozone and Particulate Matter 2.5 Area Designations

Air Quality Designations and Classifications for the 8-Hour Ozone National Ambient Air Quality Standards; Early Action Compact Areas With Deferred Effective Dates

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: This rule sets forth the air quality designations and classifications for every area in the United States, including Indian country, for the 8-hour ozone national ambient air quality standard. We are issuing this rule so that citizens will know whether the air where they live and work is healthful or unhealthy and to establish the boundaries and classifications for areas designated as nonattainment. Children are at risk when exposed to ozone pollution because their lungs are still developing, people with existing respiratory disease are at risk, and even healthy people who are active outdoors can experience difficulty breathing when exposed to ozone pollution. In this document, EPA is also promulgating the first deferral of the effective date, to Sept. 30, 2005, of the nonattainment designation for Early Action Compact areas that have met all milestones through March 31, 2004. Finally, we are inviting states to submit by July 15, 2004, requests to reclassify areas if their design value falls within five percent of a high or lower classification. This rule does not establish or address state and tribal obligations for planning and control requirements which apply to nonattainment areas for the 8-hour ozone air quality standard. Two separate rules, one of which is also published today, set forth the planning and control requirements which apply to nonattainment areas for this standard. The second rule will be published at a later date.

EFFECTIVE DATE: This final rule is effective on June 15, 2004.

- 27. In Sec. 81.326, the table entitled ``Missouri--Ozone (8-Hour Standard)'' is added to read as follows:

Sec. 81.326 Missouri.

Missouri—8-Hour Ozone Standard

Designated Area	Designation ^{(A.), (1.)}
Kansas City, MO:	
Cass County.....	Unclassifiable ^(B.)
Clay County.....	Unclassifiable ^(B.)
Jackson County.....	Unclassifiable ^(B.)
Platte County.....	Unclassifiable ^(B.)
St. Louis, MO:	
Franklin County.....	Nonattainment..... Subpart 2/Moderate.
Jefferson County.....	Nonattainment..... Subpart 2/Moderate.
St. Charles County.....	Nonattainment..... Subpart 2/Moderate.
St. Louis City.....	Nonattainment..... Subpart 2/Moderate.
St. Louis County.....	Nonattainment..... Subpart 2/Moderate.
AQCR 094 Metro Kansas City Interstate: Unclassifiable/Attainment	
Buchanan County	
Ray County	
AQCR 137 N. Missouri Intrastate (part):	
Pike County.....	Unclassifiable/Attainment
Ralls County.....	Unclassifiable/Attainment
AQCR 137 N. Missouri Intrastate	Unclassifiable/Attainment
Remainder of State:	
Adair County	Unclassifiable/Attainment
Andrew County	Unclassifiable/Attainment
Atchison County	Unclassifiable/Attainment
Audrain County	Unclassifiable/Attainment
Boone County	Unclassifiable/Attainment
Caldwell County	Unclassifiable/Attainment
Callaway County	Unclassifiable/Attainment
Carroll County	Unclassifiable/Attainment
Chariton County	Unclassifiable/Attainment
Clark County	Unclassifiable/Attainment
Clinton County	Unclassifiable/Attainment
Cole County	Unclassifiable/Attainment
Cooper County	Unclassifiable/Attainment
Daviess County	Unclassifiable/Attainment
DeKalb County	Unclassifiable/Attainment
Gentry County	Unclassifiable/Attainment
Grundy County	Unclassifiable/Attainment
Harrison County	Unclassifiable/Attainment

Missouri—8-Hour Ozone Standard (Continued)

Designated Area	Designation ^{(A.), (1.)}
Holt County	Unclassifiable/Attainment
Howard County	Unclassifiable/Attainment
Knox County	Unclassifiable/Attainment
Lewis County	Unclassifiable/Attainment
Lincoln County	Unclassifiable/Attainment
Linn County	Unclassifiable/Attainment
Livingston County	Unclassifiable/Attainment
Macon County	Unclassifiable/Attainment
Marion County	Unclassifiable/Attainment
Mercer County	Unclassifiable/Attainment
Moniteau County	Unclassifiable/Attainment
Monroe County	Unclassifiable/Attainment
Montgomery County	Unclassifiable/Attainment
Nodaway County	Unclassifiable/Attainment
Osage County	Unclassifiable/Attainment
Putnam County	Unclassifiable/Attainment
Randolph County	Unclassifiable/Attainment
Saline County	Unclassifiable/Attainment
Schuylerville County	Unclassifiable/Attainment
Scotland County	Unclassifiable/Attainment
Shelby County	Unclassifiable/Attainment
Sullivan County	Unclassifiable/Attainment
Warren County	Unclassifiable/Attainment
Worth County	Unclassifiable/Attainment
Rest of State:	Unclassifiable/Attainment
Barry County	Unclassifiable/Attainment
Barton County	Unclassifiable/Attainment
Bates County	Unclassifiable/Attainment
Benton County	Unclassifiable/Attainment
Bollinger County	Unclassifiable/Attainment
Butler County	Unclassifiable/Attainment
Camden County	Unclassifiable/Attainment
Cape Girardeau County	Unclassifiable/Attainment
Carter County	Unclassifiable/Attainment
Cedar County	Unclassifiable/Attainment
Christian County	Unclassifiable/Attainment
Crawford County	Unclassifiable/Attainment
Dade County	Unclassifiable/Attainment
Dallas County	Unclassifiable/Attainment
Dent County	Unclassifiable/Attainment
Douglas County	Unclassifiable/Attainment

Missouri—8-Hour Ozone Standard (Continued)

Designated Area	Designation (A.), (1.)
Dunklin County	Unclassifiable/Attainment
Gasconade County	Unclassifiable/Attainment
Greene County	Unclassifiable/Attainment
Henry County	Unclassifiable/Attainment
Hickory County	Unclassifiable/Attainment
Howell County	Unclassifiable/Attainment
Iron County	Unclassifiable/Attainment
Jasper County	Unclassifiable/Attainment
Johnson County	Unclassifiable/Attainment
Laclede County	Unclassifiable/Attainment
Lafayette County	Unclassifiable/Attainment
Lawrence County	Unclassifiable/Attainment
Madison County	Unclassifiable/Attainment
Maries County	Unclassifiable/Attainment
McDonald County	Unclassifiable/Attainment
Miller County	Unclassifiable/Attainment
Mississippi County	Unclassifiable/Attainment
Morgan County	Unclassifiable/Attainment
New Madrid County	Unclassifiable/Attainment
Newton County	Unclassifiable/Attainment
Oregon County	Unclassifiable/Attainment
Ozark County	Unclassifiable/Attainment
Pemiscot County	Unclassifiable/Attainment
Perry County	Unclassifiable/Attainment
Pettis County	Unclassifiable/Attainment
Phelps County	Unclassifiable/Attainment
Polk County	Unclassifiable/Attainment
Pulaski County	Unclassifiable/Attainment
Reynolds County	Unclassifiable/Attainment
Ripley County	Unclassifiable/Attainment
St. Clair County	Unclassifiable/Attainment
St. Francois County	Unclassifiable/Attainment
Ste. Genevieve County	Unclassifiable/Attainment
Scott County	Unclassifiable/Attainment
Shannon County	Unclassifiable/Attainment
Stoddard County	Unclassifiable/Attainment
Stone County	Unclassifiable/Attainment
Taney County	Unclassifiable/Attainment
Texas County	Unclassifiable/Attainment
Vernon County	Unclassifiable/Attainment
Washington County	Unclassifiable/Attainment
Wayne County	Unclassifiable/Attainment

Missouri—8-Hour Ozone Standard (Continued)

Designated Area	Designation ^{(A.), (1.)}
Webster County	Unclassifiable/Attainment
Wright County	Unclassifiable/Attainment

^{A.} Includes Indian Country located in each county or area, except as otherwise specified.

^{B.} This area is given an ``Unclassifiable" designation. EPA will review all available information and make an attainment or nonattainment decision after reviewing the 2004 data.

^{1.} This date is June 15, 2004, unless otherwise noted

Particulate Matter 2.5 Area Designations

[Federal Register: January 5, 2005 (Volume 70, Number 3)]

[Rules and Regulations]

[Page 943-1019]

From the Federal Register Online via GPO Access [wais.access.gpo.gov]

[DOCID:fr05ja05-21]

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ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 81

[OAR-2003-0061; FRL-7856-1]

RIN-2060-AM04

Air Quality Designations and Classifications for the Fine Particles (PM_{2.5}) National Ambient Air Quality Standards

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final rule.

SUMMARY: This rule sets forth the initial air quality designations and classifications for all areas in the United States, including Indian country, for the fine particles (PM_{2.5}) National Ambient Air Quality Standards (NAAQS). The EPA is issuing this rule so that citizens will know whether the air quality where they live and work is healthful or unhealthy. Health studies have shown significant associations between

exposure to PM_{2.5} and premature death from heart or lung disease. Fine particles can also aggravate heart and lung diseases and have been linked to effects such as cardiovascular symptoms, cardiac arrhythmias, heart attacks, respiratory symptoms, asthma attacks, and bronchitis. These effects can result in increased hospital admissions, emergency room visits, absences from school or work, and restricted activity days.

Individuals that may be particularly sensitive to PM_{2.5} exposure include people with heart or lung disease, older adults, and children. This rule establishes the boundaries for areas designated as nonattainment, unclassifiable, or attainment/unclassifiable. This rule does not establish or address State and Tribal obligations for planning and control requirements that apply to nonattainment areas for the PM_{2.5} standards. The EPA will publish a separate rule which will set forth the planning and control requirements that apply to nonattainment areas for the PM_{2.5} standards.

DATES: The effective date of this rule is April 5, 2005.

- 27. In Sec. 81.326, the table entitled ``Missouri.—PM_{2.5}'' is added to the end of the section to read as follows:

Sec. 81.326 Missouri.

Missouri—PM_{2.5}

Designated area	Designation (A.), (1.)
St. Louis, MO:	
Franklin County.....	Nonattainment.
Jefferson County.....	Nonattainment.
St. Charles County.....	Nonattainment.
St. Louis County.....	Nonattainment.
St. Louis City.....	Nonattainment.
Rest of State:	
Adair County.....	Unclassifiable/Attainment.
Andrew County.....	Unclassifiable/Attainment.
Atchison County.....	Unclassifiable/Attainment.
Audrain County.....	Unclassifiable/Attainment.
Barry County.....	Unclassifiable/Attainment.
Barton County.....	Unclassifiable/Attainment.
Bates County.....	Unclassifiable/Attainment.
Benton County.....	Unclassifiable/Attainment.
Bollinger County.....	Unclassifiable/Attainment.
Boone County.....	Unclassifiable/Attainment.

Missouri—PM_{2.5} (Continued)

Designated area	Designation (A.), (1.)
Buchanan County.....	Unclassifiable/Attainment.
Butler County.....	Unclassifiable/Attainment.
Caldwell County.....	Unclassifiable/Attainment.
Callaway County.....	Unclassifiable/Attainment.
Camden County.....	Unclassifiable/Attainment.
Cape Girardeau County.....	Unclassifiable/Attainment.
Carroll County.....	Unclassifiable/Attainment.
Carter County.....	Unclassifiable/Attainment.
Cass County.....	Unclassifiable/Attainment.
Cedar County.....	Unclassifiable/Attainment.
Chariton County.....	Unclassifiable/Attainment.
Christian County.....	Unclassifiable/Attainment.
Clark County.....	Unclassifiable/Attainment.
Clay County.....	Unclassifiable/Attainment.
Clinton County.....	Unclassifiable/Attainment.
Cole County.....	Unclassifiable/Attainment.
Cooper County.....	Unclassifiable/Attainment.
Crawford County.....	Unclassifiable/Attainment.
Dade County.....	Unclassifiable/Attainment.
Dallas County.....	Unclassifiable/Attainment.
Daviess County.....	Unclassifiable/Attainment.
DeKalb County.....	Unclassifiable/Attainment.
Dent County.....	Unclassifiable/Attainment.
Douglas County.....	Unclassifiable/Attainment.
Dunklin County.....	Unclassifiable/Attainment.
Gasconade County.....	Unclassifiable/Attainment.
Gentry County.....	Unclassifiable/Attainment.
Greene County.....	Unclassifiable/Attainment.
Grundy County.....	Unclassifiable/Attainment.
Harrison County.....	Unclassifiable/Attainment.
Henry County.....	Unclassifiable/Attainment.
Hickory County.....	Unclassifiable/Attainment.
Holt County.....	Unclassifiable/Attainment.
Howard County.....	Unclassifiable/Attainment.
Howell County.....	Unclassifiable/Attainment.
Iron County.....	Unclassifiable/Attainment.
Jackson County.....	Unclassifiable/Attainment.
Jasper County.....	Unclassifiable/Attainment.
Johnson County.....	Unclassifiable/Attainment.
Knox County.....	Unclassifiable/Attainment.
Laclede County.....	Unclassifiable/Attainment.
Lafayette County.....	Unclassifiable/Attainment.

Missouri.—PM_{2.5} (Continued)

Designated area	Designation ^{(A), (1)}
Lawrence County.....	Unclassifiable/Attainment.
Lewis County.....	Unclassifiable/Attainment.
Lincoln County.....	Unclassifiable/Attainment.
Linn County.....	Unclassifiable/Attainment.
Livingston County.....	Unclassifiable/Attainment.
McDonald County.....	Unclassifiable/Attainment.
Macon County.....	Unclassifiable/Attainment.
Madison County.....	Unclassifiable/Attainment.
Maries County.....	Unclassifiable/Attainment.
Marion County.....	Unclassifiable/Attainment.
Mercer County.....	Unclassifiable/Attainment.
Miller County.....	Unclassifiable/Attainment.
Mississippi County.....	Unclassifiable/Attainment.
Moniteau County.....	Unclassifiable/Attainment.
Monroe County.....	Unclassifiable/Attainment.
Montgomery County.....	Unclassifiable/Attainment.
Morgan County.....	Unclassifiable/Attainment.
New Madrid County.....	Unclassifiable/Attainment.
Newton County.....	Unclassifiable/Attainment.
Oregon County.....	Unclassifiable/Attainment.
Osage County.....	Unclassifiable/Attainment.
Ozark County.....	Unclassifiable/Attainment.
Pemiscot County.....	Unclassifiable/Attainment.
Perry County.....	Unclassifiable/Attainment.
Pettis County.....	Unclassifiable/Attainment.
Phelps County.....	Unclassifiable/Attainment.
Pike County.....	Unclassifiable/Attainment.
Platte County.....	Unclassifiable/Attainment.
Polk County.....	Unclassifiable/Attainment.
Pulaski County.....	Unclassifiable/Attainment.
Putnam County.....	Unclassifiable/Attainment.
Ralls County.....	Unclassifiable/Attainment.
Randolph County.....	Unclassifiable/Attainment.
Ray County.....	Unclassifiable/Attainment.
Reynolds County.....	Unclassifiable/Attainment.
Ripley County.....	Unclassifiable/Attainment.
St. Clair County.....	Unclassifiable/Attainment.
St. Genevieve County.....	Unclassifiable/Attainment.
St. Francois County.....	Unclassifiable/Attainment.
Saline County.....	Unclassifiable/Attainment.
Schuylerville County.....	Unclassifiable/Attainment.

Missouri.—PM_{2.5} (Continued)

Scotland County..... Unclassifiable/Attainment.

Designated area	Designation ^{(A), (1)}
Scott County.....	Unclassifiable/Attainment.
Shannon County.....	Unclassifiable/Attainment.
Shelby County.....	Unclassifiable/Attainment.
Stoddard County.....	Unclassifiable/Attainment.
Stone County.....	Unclassifiable/Attainment.
Sullivan County.....	Unclassifiable/Attainment.
Taney County.....	Unclassifiable/Attainment.
Texas County.....	Unclassifiable/Attainment.
Vernon County.....	Unclassifiable/Attainment.
Warren County.....	Unclassifiable/Attainment.
Washington County.....	Unclassifiable/Attainment.
Wayne County.....	Unclassifiable/Attainment.
Webster County.....	Unclassifiable/Attainment.
Worth County.....	Unclassifiable/Attainment.
Wright County.....	Unclassifiable/Attainment.

^A. Includes Indian Country located in each county or area, except as otherwise specified.

¹. This date is 90 days after January 5, 2005, unless otherwise noted.

APPENDIX H

6.8 Appendix H Missouri Air Quality Monitors Data for Years 2003, 2004 and 2005

8-Hour Design Values

	4th High 8-hr Average (ppb)					Design Value		
	2001	2002	2003	2004	2005	01-03	02-04	03-05
Missouri								
Arnold	86	93	82	70	92	87	81	81
West Alton	85	99	91	77	89	91	89	85
Orchard Farm	88	98	90	76	92	92	88	86
Blair St.					89			na
Margarettta	80	98	90	72	91	89	86	84
Sunset Hills	88	98	88	70	89	91	85	82
Maryland Hts					88			na
Pacific					87			na
Bonne Terre	75	92	83	70	84	83	81	79
Foley					89			na
Illinois								
Jerseyville	84	100	83	73	83	89	85	79
Alton	82	94	89	74	91	88	85	84
Maryville	73	90	88	78	88	83	85	84
Wood River	78	84	83	73	87	81	80	81
Houston	77	85	77	64	74	79	75	71
East St. Louis	78	93	79	73	94	83	81	82
Missouri								
Liberty	79	87	88	71	88	84	82	82
Watkins Mill	73	83	85	67	79	80	78	77
Rocky Creek		91	88	69	87	na	na	81
RG South	72	83	82	61	81	79	75	74
Trimble				71	87			79
Kansas								
Wyandotte CO	76	80	84	63	79	80	75	75
U.S Penitentiary			82	66	77			75
Heritage Park			81	66	81			76

Springfield								
Hillcrest H.S.	71	74	72	64	77	72	70	71
Outstate								
Mark Twain	76	85	71	61	75	77	72	69
Eldorado Spgs	74	82	80	71	79	78	77	76
Farrar				66	79			na

Annual PM_{2.5} Total Mass for 2002-2005

	24-hr Std = 65 µg/m ³					Design Values	
	98th percentile						
	98th percentile						
St. Louis	2002	2003	2004	2005	02 - 04	03 - 05	
West Alton	35.0	35.5	30.2	38.5	33.6	34.7	
Margaretta	35.5	31.5	26.5	40.0	31.2	32.7	
Blair Street	36.5	32.0	27.9	40.3	32.1	33.4	
South Broadway	36.5	33.2	28.5	38.6	32.7	33.4	
Mound Street	35.9	33.2	30.3	40.8	33.1	34.8	
Clayton	36.9	33.2	33.7	43.5	34.6	36.8	
Sunset Hills	34.0	30.5	32.6	38.3	32.4	33.5	
Arnold	46.5	37.2	34.8	41.7	39.5	37.9	
Kansas City							
Liberty	30.3	28.1	26.5	31.2	28.3	28.6	
Troost	34.0	31.4	27.3	34.2	30.9	31.0	
UMKC	30.1	34.1	27.3	34.0	30.5	31.8	
RG- South	26.0	29.8	22.7	31.4	26.2	28.0	
Outstate							
El Dorado Springs	28.9	27.3	25.7	33.1	27.3	28.7	
Mark Twain St. Pk.	29.0	29.3	21.9	32.3	26.7	27.8	
Ste. Genevieve	34.2	33.8	25.8	36.1	31.3	31.9	
MSU	27.8	29.4	26.6	33.6	27.9	29.9	
St. Joseph	30.9	28.2	32.0	35.1	30.4	31.8	
Columbia	29.3	30.6	25.4	34.7	28.4	30.2	

	Annual Mean Std = 15.0 µg/m ³					Design Values	
	Annual Mean						
	2002	2003	2004	2005	02 - 04	03 - 05	
St. Louis	2002	2003	2004	2005	02 - 04	03 - 05	
West Alton	14.0	14.0	11.9	15.2	13.3	13.7	
Margaretta	14.3	13.5	12.1	15.1	13.3	13.6	
Blair Street	15.4	14.1	13.1	16.1	14.2	14.4	
South Broadway	15.3	14.4	13.4	15.9	14.4	14.6	

Mound Street	15.6	14.7	13.1	15.9	*	*
Clayton	14.6	13.6	12.6	15.5	13.6	13.9
Sunset Hills	13.0	13.0	11.9	15.5	12.6	13.5
Arnold	15.1	13.9	12.5	15.4	13.8	13.9
Kansas City						
Liberty	12.3	11.7	9.5	12.2	11.2	11.1
Troost	14.0	13.1	12.0	14.1	13.1	13.1
UMKC	13.3	12.7	11.0	12.5	12.4	12.1
RG- South	11.7	11.1	9.8	11.6	10.9	10.9
Outstate						
El Dorado Springs	11.8	11.4	9.9	12.1	11.0	11.1
Mark Twain St. Pk.	11.4	11.4	9.2	12.1	10.6	10.9
Ste. Genevieve	13.7	13.6	12.4	15.0	13.2	13.7
MSU	12.7	11.7	11.0	13.0	11.7	11.9
St. Joseph	13.0	11.9	11.4	14.5	12.2	12.7
Columbia	12.4	12.5	10.2	12.9	11.7	11.8

* - middle scale site – not for comparison to annual average

APPENDIX I

6.9 Appendix I Missouri Air Quality Monitors Locations Oxides of Nitrogen, Particulate Matter, Ozone and Oxides of Sulfur as of 9/30/05

Agency		
Site Identification		
Site Name		Pollutant
<u>Environmental Services</u>		
29-047-0003	Watkins Mill	O ₃ (1)
29-047-0005	Liberty	NO ₂ PM _{2.5} PM _{2.5} (2) O ₃ (1)
29-183-1002	West Alton	NO ₂ PM _{2.5} O ₃ (1)
29-021-0005	St. Joseph Pump Station	PM ₁₀ PM _{2.5}
29-097-0003	Carthage Stone	PM ₁₀ PM ₁₀ (2)
29-047-0026	North Kansas City	PM ₁₀ (discontinued 1 July)
29-099-0012	Arnold	O ₃ (1) PM _{2.5} PM _{2.5} (2)

29-137-0001		
Mark Twain State Park	O ₃ (1)	
	PM ₁₀	
	PM _{2.5}	
	SO ₂	
29-183-1004		
Orchard Farm	O ₃ (1)	
29-157-0001		
Farrar	O ₃ (1)	
29-113-0003		
Foley	O ₃ (1)	
29-186-0005		
Bonne Terre	NO ₂	
	O ₃ (1)	
	PM _{2.5} (2)	
29-039-0001		
El Dorado Springs	O ₃	
	PM _{2.5}	
	PM _{2.5} (2)	
29-186-0006		
Ste. Genevieve	PM _{2.5}	
29-019-0001		
Columbia	PM _{2.5}	
20-047-0006		
Rocky Creek	O ₃ (1)	
20-049-0001		
Trimble	O ₃ (1)	
29-095-0035		
Van Brunt	PM ₁₀	
29-095-0034		
Troost	NO ₂	
	PM ₁₀	
	PM _{2.5}	
	PM _{2.5} (2)	
	SO ₂	

29-037-0003	
Richards Gebaur	O ₃ (1)
South	PM _{2.5}
29-165-0023	
KCI	O ₃ (1)
	SO ₂
29-095-0010	
UMKC	PM _{2.5}
29-163-0002	
Clarksville	SO ₂
<u>ST LOUIS COUNTY</u>	
29-189-0004	
Sunset Hills	NO ₂
	O ₃ (1)
	PM _{2.5}
	SO ₂
29-189-2003	
Clayton Animal	PM ₁₀
Shelter	PM _{2.5}
29-189-0006	
Queeny	NO ₂
	O ₃ (1)
	SO ₂
29-189-3001	
Ladue	NO ₂
	PM _{2.5} (2)
	SO ₂
29-189-0014	
Maryland Heights	NO ₂
	O ₃ (1)
	SO ₂
29-189-0005	
Pacific	O ₃ (1)

ST LOUIS CITY

29-510-0007

South Broadway

PM_{2.5}SO₂

29-510-0072

Clark

NO₂ (discontinued 1 May)

29-510-0088

Hall Street

PM₁₀ (2)

29-510-0085

Blair Street

O₃ (1)PM₁₀PM_{2.5} (2)PM_{2.5}

29-510-0086

Margaretta

NO₂O₃ (1)PM₁₀PM_{2.5}SO₂

29-510-0087

Mound Street

PM₁₀PM_{2.5}

29-510-0092

North Market

PM₁₀ (2)**SPRINGFIELD**

29-077-0026

South Charleston

SO₂

29-077-0032

Missouri State

PM₁₀

University

PM_{2.5}SO₂

29-077-0036

Hillcrest High

NO₂

School

O₃ (1)

29-077-0037

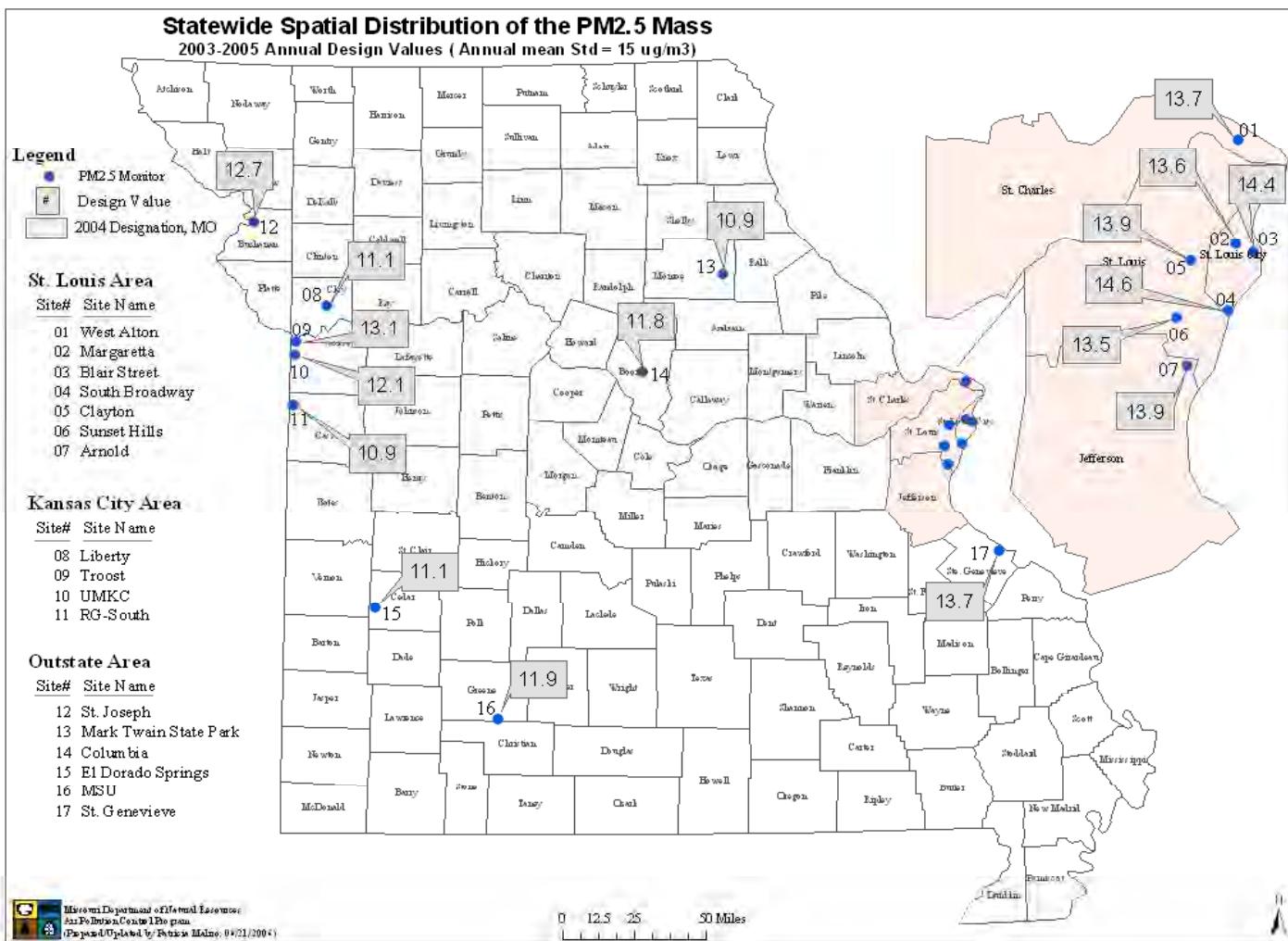
James River-South

SO₂

(1) Operates only during ozone season (4-1/10-31)

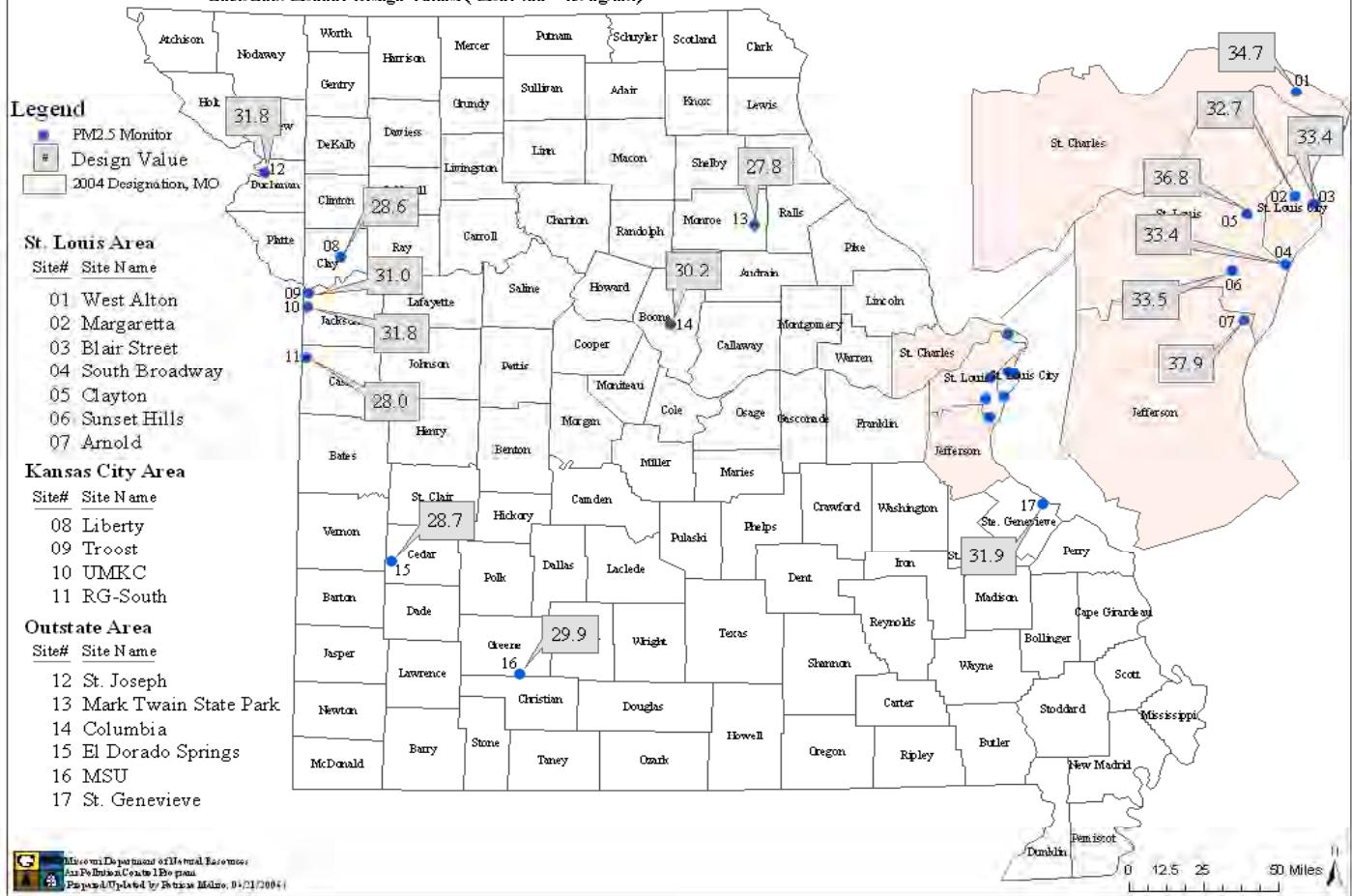
- (2) Some PM_{2.5} and PM₁₀ readings are measured and recorded by Tapered Element Oscillating Microbalance Monitors (TEOM).

Missouri State Map Air Monitor Locations



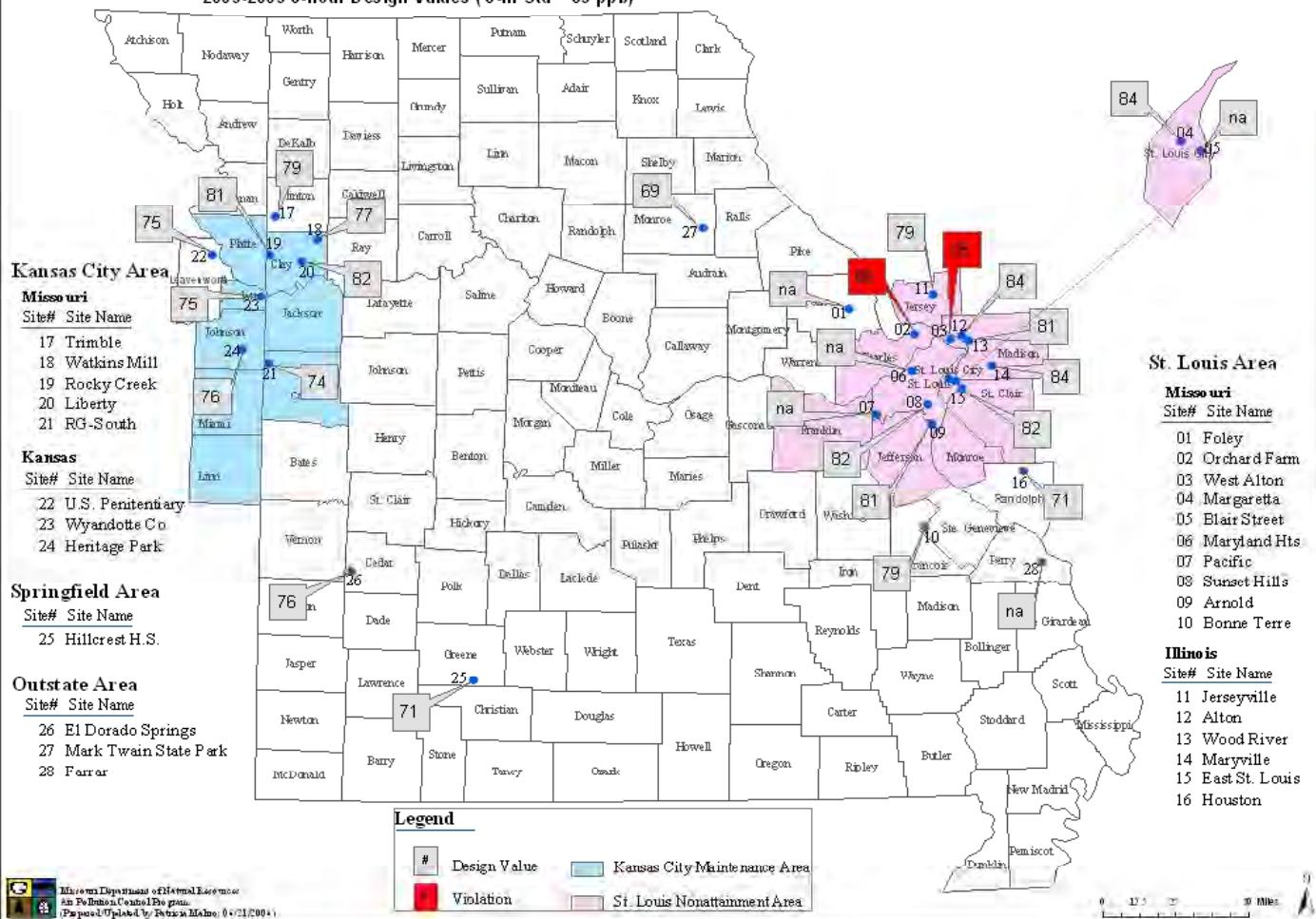
Statewide Spatial Distribution of the PM2.5 Mass

2003-2005 24-hour Design Values (24-hr Std = 65 $\mu\text{g}/\text{m}^3$)



Spatial Distribution of the Monitored 8-hour Ozone Concentration

2003-2005 8-hour Design Values (8-hr Std = 85 ppb)



APPENDIX J

6.10 Appendix J Clean Air Interstate Rules and Clean Air Mercury Rule MACC Adoption Certification

Order of Rule Making

Pursuant to 643.055 RSMo, the Missouri Air Conservation Commission has determined that this action is needed to have a U.S. Environmental Protection Agency approved State Implementation Plan.

10 CSR 10-6.362 Clean Air Interstate Rule Annual NO_x Trading Program is hereby **ADOPTED** by the Missouri Air Conservation Commission this 1st day of February, 2007.

M. R. Fassman, Chairman

Mark G. Mally, Vice-Chairman

Jack C. Baker, Member

Ervin L. Roschke, Member

Say J. Pendy, Member

Ruth H. Di, Member

Mah, Member

Order of Rule Making

Pursuant to 643.055 RSMo, the Missouri Air Conservation Commission has determined that this action is needed to have a U.S. Environmental Protection Agency approved State Implementation Plan.

10 CSR 10-6.364 Clean Air Interstate Rule Seasonal NO_x Trading Program is hereby **ADOPTED** by the Missouri Air Conservation Commission this 1st day of February, 2007.

M. R. Freeman, Chairman

Mark W. J., Vice-Chairman

Jack C. Baker, Member

Kevin L. Roseloh, Member

Sara J. Pendeg, Member

R. J. H. RI, Member

Mark F., Member

Order of Rule Making

Pursuant to 643.055 RSMo, the Missouri Air Conservation Commission has determined that this action is needed to have a U.S. Environmental Protection Agency approved State Implementation Plan.

10 CSR 10-6.366 Clean Air Interstate Rule SO₂ Trading Program is hereby **ADOPTED** by the Missouri Air Conservation Commission this 1st day of February, 2007.

M. L. Frerick, Chairman

Mark L. J., Vice-Chairman

Jack C Baker, Member

Tom L. Bruland, Member

Say J. Penley, Member

R. J. H. Ri, Member

M. L. S., Member

Order of Rule Making

Pursuant to 643.055 RSMo, the Missouri Air Conservation Commission has determined that this action is needed to have a U.S. Environmental Protection Agency approved State Implementation Plan.

10 CSR 10-6.368 Control of Mercury Emissions From Electric Generating Units is hereby **ADOPTED** by the Missouri Air Conservation Commission this 1st day of February, 2007.

M. R. *Truman*, Chairman

J. M. *City*, Vice-Chairman

Jack C. *Baker*, Member

Kevin L. *Roschek*, Member

Darryl *Panday*, Member

R. J. H. *Ri*, Member

Mark *Malin*, Member